



**City of Bellevue
Development Services Department
Land Use Staff Report**

Proposal Name: West Lake Sammamish Parkway Slide Repair

Proposal Address: 540 W Lake Sammamish Parkway SE

Proposal Description: Post-construction review of completed emergency repairs to W Lake Sammamish Parkway to restore the road and adjacent slopes following a landslide in the winter of 2012.

File Number: 12-126716-LO

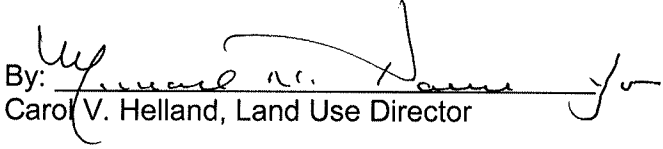
Applicant: Paul Crawczyk, COB Transportation Design

Decisions Included Critical Areas Land Use Permit
(Process II. 20.30P)

Planner: Reilly Pittman, Land Use Planner

**State Environmental Policy Act
Threshold Determination:** **Exempt per WAC 197-11-880 for Emergencies**

Director's Decision: **Approval with Conditions**
Michael A. Brennan, Director
Development Services Department

By: 
Carol V. Helland, Land Use Director

Application Date: October 9, 2012
Notice of Application Date: October 25, 2012
Decision Publication Date: November 15, 2012
Project Appeal Deadline: November 29, 2012

For information on how to appeal a proposal, visit Development Services Center at City Hall or call (425) 452-6800. Appeal of the decision must be received in the City's Clerk's Office by 5 PM on the date noted for appeal of the decision.

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Attachments

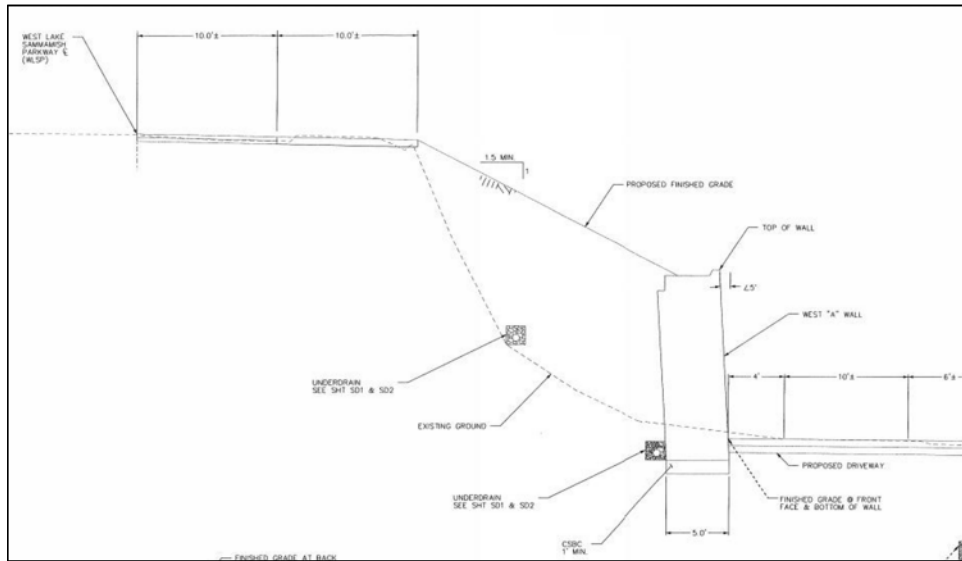
1. Project Plans – Enclosed
2. Geotech Report, application forms, materials – In File

I. Proposal Description

The City of Bellevue Transportation Department conducted emergency repairs allowed under LUC 20.25H.055 following a landslide on a steep slope critical area embankment adjacent to W Lake Sammamish Parkway SE. Repairs reestablished the slope, roadway, and included construction of a large block retaining wall at the toe-of-slope on private property. The restored slope was replanted with vegetation. This activity is classified as emergency slope stabilization and is an allowed use in a critical area per LUC 20.25H.055. Emergency Actions are exempt from SEPA review per WAC 197-11-880; a Declaration of Emergency was issued by the City for the work on January 23, 2012. This action requires the post-construction approval of a Critical Areas Land Use Permit. Emergency work is exempt from a clearing and grading permit per BCC 23.76.035.B and no subsequent development permit is required. See Figure 1 below for photos of the slide, a project plans, and a photo of the repaired slope.

Figure 1



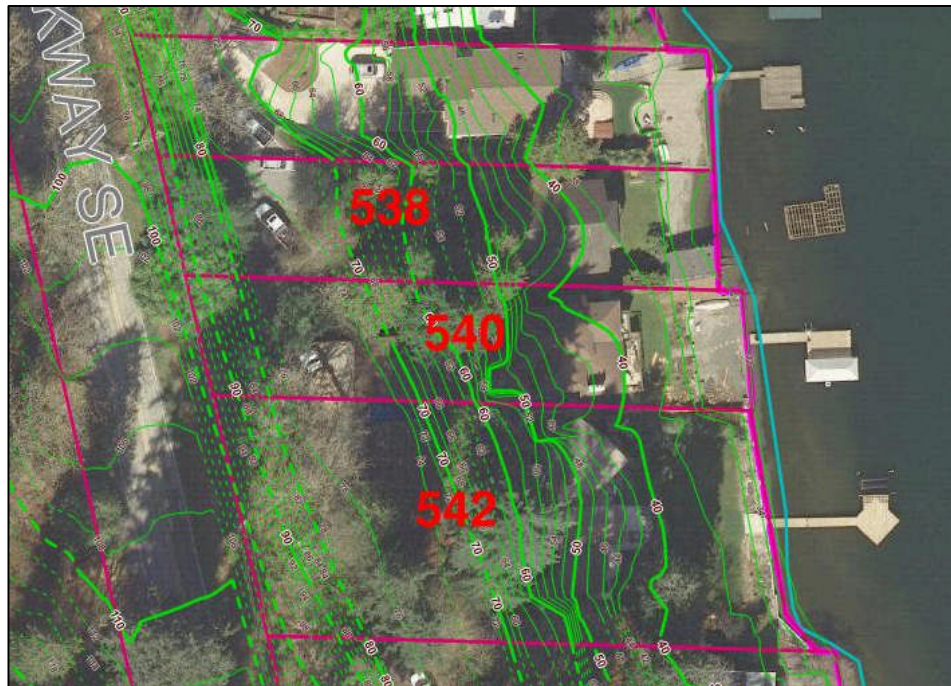


II. Site Description, Zoning, Land Use and Critical Areas

A. Site Description

The project site is located east of W Lake Sammamish Parkway in the Southeast Bellevue subarea of the City and primarily at 540 W Lake Sammamish Parkway SE. The landslide impacted the properties in the immediate vicinity and forced the closure of the Parkway. The properties in the vicinity are single-family residential and are developed. See Figure 2 for existing site condition.

Figure 2



B. Zoning

The property is zoned R-3.5, single-family residential which allows slope stabilization.

C. Land Use Context

The property has a Comprehensive plan Land Use Designation of SF-M (Single Family Medium Density). Stabilization is consistent with this residential land use.

D. Critical Areas On-Site and Regulations

i. Geologic Hazard Areas

Geologic hazards pose a threat to the health and safety of citizens when commercial, residential, or industrial development is inappropriately sited in areas of significant hazard. Some geologic hazards can be reduced or mitigated by engineering, design, or modified construction practices. When technology cannot reduce risks to acceptable levels, building in geologically hazardous areas is best avoided (WAC 365-190).

Steep slopes may serve several other functions and possess other values for the City and its residents. Several of Bellevue's remaining large blocks of forest are located in steep slope areas, providing habitat for a variety of wildlife species and important linkages between habitat areas in the City. These steep slope areas also act as conduits for groundwater, which drains from hillsides to provide a water source for the City's wetlands and stream systems. Vegetated steep slopes also provide a visual amenity in the City, providing a "green" backdrop for urbanized areas enhancing property values and buffering urban development.

III. Consistency with Land Use Code Requirements:

A. Zoning District Dimensional Requirements:

The only above-ground structure constructed was a retaining wall at the toe of the slope on the properties at 540 and 542 W Lake Sammamish Parkway SE. The wall varies in height but is a maximum of 12 feet tall. The tallest portion of the wall is located outside the front setback required from the right of way of the parkway. However, a portion of the wall is within the setback area and exceeds 30 inches in height. LUC 20.20.025.C allows walls to exceed 30 inches in height within a required setback if the wall is necessary for access. The constructed wall retains the slope to enable private driveway access to the properties the wall is located on. The wall is allowed to exceed 30 inches height within the front setback because it is necessary for access.

B. Critical Areas Requirements LUC 20.25H:

The City of Bellevue Land Use Code Critical Areas Overlay District (LUC 20.25H) establishes performance standards and procedures that apply to development on any site which contains in whole or in part any portion designated as critical area, critical area buffer or structure setback from a critical area or buffer. The proposed stabilization is an allowed use, provided certain requirements are met. The project is subject to the performance standards found in LUC 20.25H.055.C.3.m and LUC 20.25H.125 which are reviewed below.

i. Consistency With LUC 20.25H.055.C.3.m

Stabilization Measures. Proposed stabilization measures within a critical area or critical area buffer to protect against steep slopes or landslide hazards may be approved in accordance with this subsection.

- a. When Allowed. New or enlarged stabilization measures shall be allowed only to protect existing primary structures and infrastructure, or in connection with uses and development allowed pursuant to subsection B of this section. Stabilization measures shall be allowed only where avoidance measures are not technically feasible.**

The emergency slope restoration was conducted to restore the road infrastructure of W Lake Sammamish Parkway. The restoration of the steep slope is necessary to restore the road. Due to the location of the landslide and existing public and private improvements avoidance is not possible.

- b. Type of Stabilization Measure Used. Where a stabilization measure is allowed, soft stabilization measures shall be used, unless the applicant demonstrates that soft stabilization measures are not technically feasible. As used in this part, "soft stabilization measures" include: biotechnical measures, bank enhancement, anchor trees, gravel placement, stepped back rockeries, vegetative plantings and similar measures that use natural materials engineered to provide stabilization while mimicking or preserving the functions and values of the critical area.**

The work conducted restored the slope and replanted vegetation on the slope. Hard stabilization was used through the construction of a retaining wall at the toe of slope. Hard stabilization was the only feasible alternative due to the limited

area between the Parkway and private property; more slope area would be needed for softer stabilization measures to work. The proximity of private improvements to the slope which were damaged by the slide also limits the ability for softer stabilization to be used. The critical area slope is restored to condition that is at least equivalent to the preexisting slope. The wall at the toe of the slope replaces a smaller preexisting rockery wall. The larger wall has allowed more substantial vegetation to be planted on the slope and the planting has improved the quality of vegetation on the slope above that which existed prior to the slide.

ii. Consistency with LUC 20.25H.125

Development within a landslide hazard or steep slope critical area or the critical area buffers of such hazards shall incorporate the following additional performance standards in design of the development, as applicable. The requirement for long-term slope stability shall exclude designs that require regular and periodic maintenance to maintain their level of function.

1. Structures and improvements shall minimize alterations to the natural contour of the slope, and foundations shall be tiered where possible to conform to existing topography;

No building foundations are proposed. The work proposes to restore the grades of the steep slope.

2. Structures and improvements shall be located to preserve the most critical portion of the site and its natural landforms and vegetation;

No structures are proposed and no vegetation is to be removed beyond what was lost during the landslide.

3. The proposed development shall not result in greater risk or a need for increased buffers on neighboring properties;

The retaining wall is meant to retain the slope above the properties here the slide occurred.

4. The use of retaining walls that allow the maintenance of existing natural slope area is preferred over graded artificial slopes where graded slopes would result in increased disturbance as compared to use of retaining wall;

The retaining wall has allowed the preexisting slope to be restored.

5. Development shall be designed to minimize impervious surfaces within the critical area and critical area buffer;

The constructed wall is slightly west of the preexisting rockery wall and would be further into the slope, if it still existed. The new wall location resulted in a slightly wider driveway located in what would have been the steep slope critical area prior to the slide.

6. Where change in grade outside the building footprint is necessary, the site retention system should be stepped and regrading should be designed to

minimize topographic modification. On slopes in excess of 40 percent, grading for yard area may be disallowed where inconsistent with this criteria;

No building or retention system is proposed.

- 7. Building foundation walls shall be utilized as retaining walls rather than rockeries or retaining structures built separately and away from the building wherever feasible. Freestanding retaining devices are only permitted when they cannot be designed as structural elements of the building foundation;**

No foundations are proposed.

- 8. On slopes in excess of 40 percent, use of pole-type construction which conforms to the existing topography is required where feasible. If pole-type construction is not technically feasible, the structure must be tiered to conform to the existing topography and to minimize topographic modification;**

No enclosed structure is proposed.

- 9. On slopes in excess of 40 percent, piled deck support structures are required where technically feasible for parking or garages over fill-based construction types; and**

No parking area or garage is proposed.

- 10. Areas of new permanent disturbance and all areas of temporary disturbance shall be mitigated and/or restored pursuant to a mitigation and restoration plan meeting the requirements of LUC 20.25H.210.**

The restored slope was planted per the plan found in Attachment 1. The planting is required to be maintained and monitored for a period of at least three years. Annual monitoring reports are required to be submitted to Land Use to document the health and survival of the installed vegetation. Photos and a description of the maintenance activity shall also be included. See Conditions of Approval in Section X of this report.

IV. Public Notice and Comment

| | |
|---------------------------|------------------|
| Application Date: | October 9, 2012 |
| Public Notice (500 feet): | October 25, 2012 |
| Minimum Comment Period: | November 9, 2012 |

The Notice of Application for this project was published in the City of Bellevue Weekly Permit Bulletin on October 25, 2012. It was mailed to property owners within 500 feet of the project site. No comments were received.

V. Summary of Technical Reviews

A. Clearing and Grading

The Clearing and Grading Division of the Development Services Department has reviewed the proposed site development for compliance with Clearing and Grading codes and standards. The Clearing and Grading staff found no issues with the proposed development and has approved the application.

VI. State Environmental Policy Act (SEPA)

Under WAC 197-11-880 emergency actions are exempt from SEPA review if the action avoids an imminent threat to public health or safety, prevents an imminent danger to public or private property, or prevents an imminent threat of serious environmental degradation. The City Manager of the City of Bellevue issued a Declaration of Emergency on January 23, 2012 to conduct emergency repair of W Lake Sammamish Parkway SE that is reviewed in this report.

VII. Changes to Proposal Due to Staff Review

No changes to the proposal were requested.

VIII. Decision Criteria

A. 20.30P.140 Critical Area Land Use Permit Decision Criteria – Decision Criteria

The Director may approve, or approve with modifications an application for a Critical Area Land Use Permit if:

1. The proposal obtains all other permits required by the Land Use Code.

This approval is the only required permit from the City.

2. The proposal utilizes to the maximum extent possible the best available construction, design and development techniques which result in the least impact on the critical area and critical area buffer.

The project restored the slope and replanted vegetation on the slope which is consistent with stabilization practices.

3. The proposal incorporates the performance standards of Part 20.25H to the maximum extent applicable.

As discussed in Section III of this report, the applicable performance standards of LUC Section 20.25H are being met.

4. The proposal will be served by adequate public facilities including street, fire protection, and utilities.

The proposed activity restored public facilities to a functional condition.

5. The proposal includes a mitigation or restoration plan consistent with the requirements of LUC Section 20.25H.210.

The planting plan is found in Attachment 1 and restores vegetation to the steep slope critical area.

6. The proposal complies with other applicable requirements of this code.

As discussed in this report, the proposal complies with all other applicable requirements of the Land Use Code.

IX. Conclusion and Decision

After conducting the various administrative reviews associated with this proposal, including Land Use Code consistency, City Code and Standard compliance reviews, the Director of the Development Services Department does hereby **approve with conditions** the restoration and stabilization of the steep slope critical area. **Approval of this Critical Areas Land Use Permit does not constitute a permit for construction. However, per BCC 23.76.035.B the work covered in this approval is exempt from the a clear and grade permit. Future work beyond this approval will require separate permits.**

X. Conditions of Approval

The applicant shall comply with all applicable Bellevue City Codes and Ordinances including but not limited to:

| <u>Applicable Ordinances</u> | <u>Contact Person</u> |
|--------------------------------------|------------------------------|
| Clearing and Grading Code- BCC 23.76 | Tom McFarlane, 425-452-5207 |
| Land Use Code- BCC Title 20 | Reilly Pittman, 425-452-4350 |
| Noise Control- BCC 9.18 | Reilly Pittman, 425-452-2973 |

The following conditions are imposed under the Bellevue City Code or SEPA authority referenced:

- 1. Maintenance and Monitoring:** Monitoring of the restoration planting on the slope is required for three years. Annual monitoring reports are required to be submitted which include photos and document the plant health and survival. Any maintenance activity, plant replacement, or other actions taken to ensure plant survival shall be included in the report. Monitoring reports should be mailed to:

Environmental Planning Manager
Development Services Department
City of Bellevue
PO Box 90012
Bellevue, WA 98009-9012

Authority: Land Use Code 20.30P.140; 20.25H.220
Reviewer: Reilly Pittman, Development Services Department

CITY OF BELLEVUE
TRANSPORTATION DEPARTMENT

WEST LAKE SAMMAMISH
PARKWAY
2012 SLIDE REPAIR

CITY MANAGER
STEVEN R. SARKOZY

MAYOR
CONRAD LEE

DEPUTY MAYOR
JENNIFER ROBERTSON

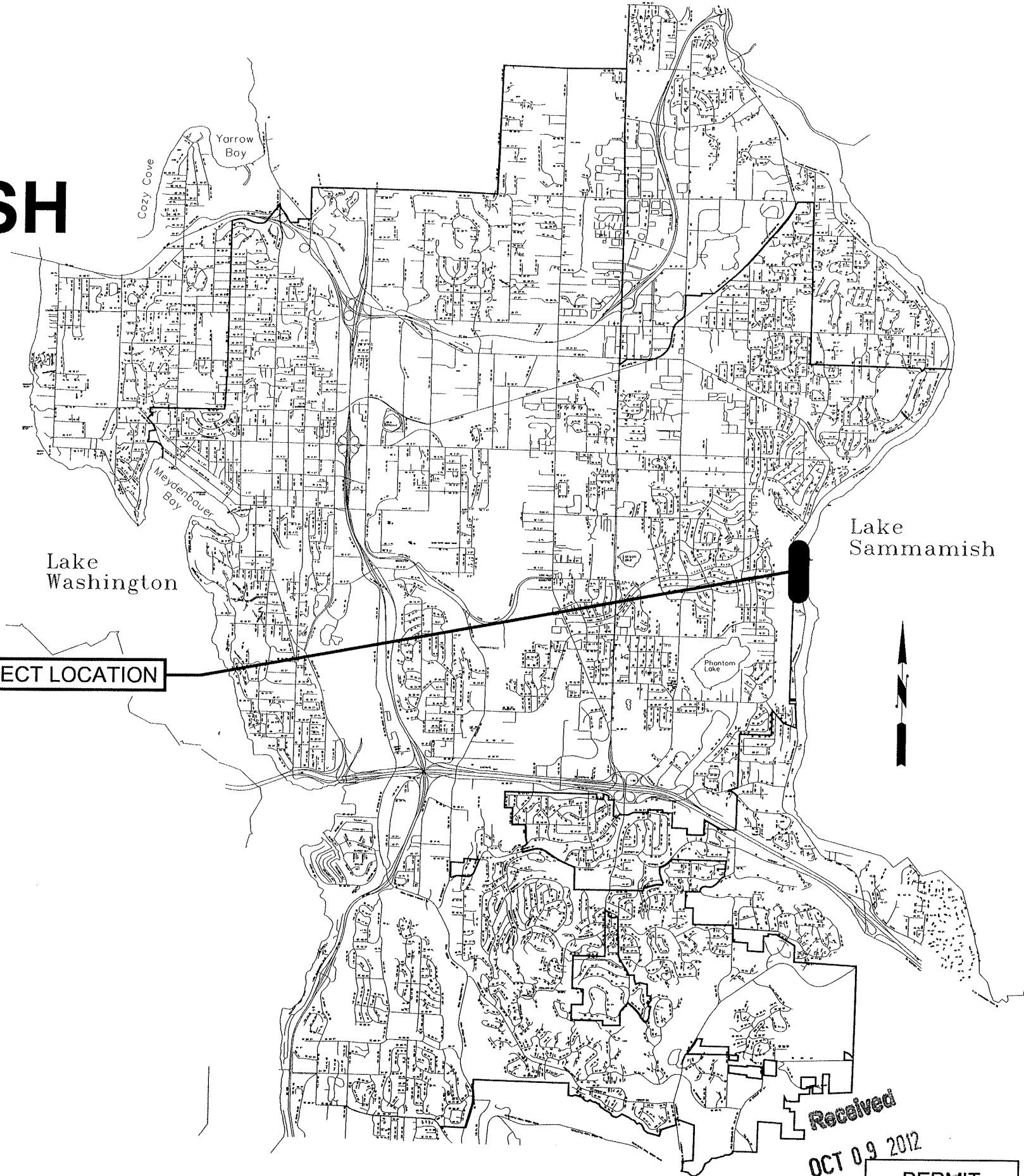
DIRECTOR OF TRANSPORTATION
DAVE BERG

CITY COUNCIL
CLAUDIA BALDUCCI
JOHN CHELMINIAK
DON DAVIDSON
JOHN STOKES
KEVIN WALLACE

PROJECT LOCATION

SCHEDULE OF DRAWINGS

| NO. | SHT ID | TITLE |
|-----|--------|---|
| 1 | G1 | COVER SHEET |
| 2 | G2 | LEGEND |
| 3 | G3 | GENERAL NOTES |
| 4 | ES1 | EASEMENTS |
| 5 | EC1 | TEMPORARY EROSION AND SEDIMENTATION CONTROL |
| 6 | RP1 | ROADWAY AND PAVING PLAN |
| 7 | SD1 | STORM DRAINAGE PLAN |
| 8 | SD2 | STORM DRAINAGE DETAILS |
| 9 | UT1 | UTILITY PLAN |
| 10 | UT2 | UTILITY DETAILS |
| 11 | WL1 | WALL PLAN |
| 12 | WL2 | WEST WALL PROFILE |
| 13 | WL3 | EAST WALL PROFILE |
| 14 | WL4 | WALL TYPICAL SECTIONS |
| 15 | L1 | PLANTING PLAN |
| 16 | L2 | PLANTING SCHEDULE & LEGEND |



Received
OCT 09 2012
PERMIT
SUBMITTAL
JUNE 2012

EXISTING LEGEND

- MONUMENT IN CASE
- MONITORING WELL
- POWER MANHOLE
- TRANSFORMER
- TELECOMMUNICATIONS VAULT
- TELECOMMUNICATION MANHOLE
- TELECOMMUNICATIONS RISER
- TR - TRAFFIC
EL - ELECTRICAL
TC - TELECOMM
JUNCTION BOX
- YARD LIGHT
- LUMINAIRE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- AREA DRAIN
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN
- CLEANOUT
- DOWNSPOUT
- WATER MANHOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- IRRIGATION JUNCTION BOX
- IRRIGATION CONTROL VALVE
- GAS VALVE
- GAS METER
- METAL SIGN POST
- WOOD SIGN POST
- CONIFEROUS TREE
- DECIDUOUS TREE
- WHEELCHAIR RAMP
- CHANNELIZATION ARROW
- RIGHT OF WAY CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- EASEMENT LINE
- INDEX CONTOUR
- CONTOUR
- BURIED TELECOMMUNICATIONS LINE
- BURIED POWER LINE
- BURIED GAS LINE
- BURIED FIBER OPTIC LINE
- CITY OF BELLEVUE SMFO CABLE
- CITY OF BELLEVUE INTERCONNECT CABLE
- BURIED SANITARY SEWER LINE
- BURIED STORM DRAIN LINE
- BURIED WATER LINE
- ROCKERY WALL
- EDGE OF BLDG
- EDGE OF ASPHALT
- EDGE OF CONCRETE
- CURB LINE
- FENCE LINE

ABBREVIATIONS

- AB

ANCHOR BOLT
- ABUT

ABUTMENT
- AC

ASBESTOS CEMENT
- ACP

ASPHALT CONCRETE PAVEMENT
- B&B

BALLED AND BURLAPPED
- BM

BENCH MARK
- BOT

BOTTOM
- CB

CATCH BASIN
- CIR

CIRCLE
- CL

CLASS
- CLR

CLEAR
- COB

CITY OF BELLEVUE
- CONC

CONCRETE
- CONST

CONSTRUCTION
- CSTC

CRUSHED SURFACING TOP COURSE
- CY

CUBIC YARD
- D

DEEP
- DI

DUCTILE IRON
- Ø

DIAMETER
- DW

DRIVEWAY
- E

EAST
- EA

EACH
- EF

EACH FACE
- EL-ELEV

ELEVATION
- ELEC

ELECTRICAL
- EQ

EQUAL
- EX-EXIST

EXISTING
- EXT

EXTERIOR
- FF

FAR FACE
- FH

FIRE HYDRANT
- FIN

FINISH
- FL

FLANGE
- FOC

FACE OF CURB
- FT

FOOT
- GA

GUY ANCHOR
- GAL

GALLON
- GALV

GALVANIZED
- GP

GUY POLE
- GR

GRADE
- GRC

GALVANIZED RIGID STEEL CONDUIT
- GV

GAS VALVE
- H

HIGH
- HDPP

HIGH DENSITY POLYETHYLENE
- IE

INVERT ELEVATION
- ICV

IRRIGATION CONTROL
- ILLUM

ILLUMINATION
- INCL

INCLUDING
- INT

INTERIOR
- L

LONG
- LF

LINEAR FOOT
- LONG

LONGITUDINAL
- LT

LEFT
- MAX

MAXIMUM
- MB

MAILBOX
- M/E

MATCH EXISTING
- MH

MANHOLE
- MIN

MINIMUM
- MJ

MECHANICAL JOINT
- MOD

MODULAR
- N

NORTH
- NE

NORTH EAST
- NF

NEAR FACE
- NMC

NON-METALLIC CONDUIT
- NO

NUMBER
- NTS

NOT TO SCALE
- NW

NORTH WEST
- OC

ON CENTER
- OPP

OPPOSITE
- P

POWER VAULT
- PC

POINT OF CURVATURE
- PE

PLAIN END
- PP

POWER POLE
- PRC

POINT OF REVERSE CURVATURE
- PSE

PUGET SOUND ENERGY
- PT

POINT OF TANGENCY
- PVC

POLYVINYL CLORIDE
- PVCE

POINT OF VERTICAL CURVATURE - ELEVATION
- PVCS

POINT OF VERTICAL CURVATURE - STATION
- PVTE

POINT OF VERTICAL TANGENCY - ELEVATION
- PVTS

POINT OF VERTICAL TANGENCY - STATION
- RCP

REINFORCED CONCRETE PAVEMENT
- REINF

REINFORCED
- REQ'D

REQUIRED
- RPMS

RAISED PAVEMENT MARKERS
- RT

RIGHT
- R/W

RIGHT-OF-WAY
- S

SOUTH
- SD

SCHEDULE
- SD

STORM DRAIN
- SE

SOUTH EAST
- SF

SQUARE FOOT
- SHLDR

SHOULDER
- SPA

SPACING
- SS

SANITARY SEWER
- STA

STATION
- STD

STANDARD
- STL

STEEL
- S/W

SIDEWALK
- SW

SOUTH WEST
- SY

SQUARE YARD
- SYMM

SYMMETRICAL
- TELECOMM

TELECOMMUNICATIONS
- TEMP

TEMPORARY
- TCE

TEMPORARY CONSTRUCTION EASEMENT
- TRANSV

TRANSVERSE
- TWLT

TWO WAY LEFT TURN LANE
- TYP

TYPICAL
- VERT

VERTICAL
- W

WIDE
- W

WEST
- WM

WATER METER
- WS

WATER SOURCE
- WSDOT

WASHINGTON DEPARTMENT OF TRANSPORTATION
- WV

WATER VALVE

DATUM



HORIZONTAL DATUM:

NAD 83/91, WASHINGTON NORTH ZONE
BASED ON CITY OF BELLEVUE
CONTROL PTS 1073 AND 1074

VERTICAL DATUM:

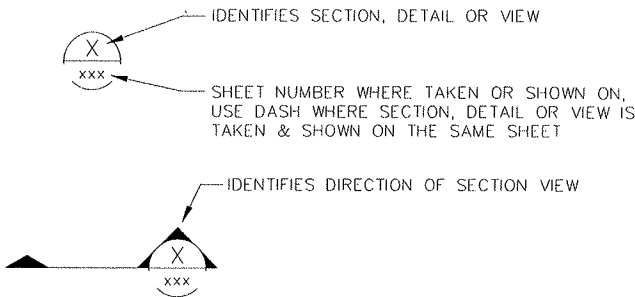
NAVD 88, BASED ON LOCAL
BENCHMARKS, NOS. 486 AND 485,
PROVIDED BY CITY OF BELLEVUE

CONTROL

COB CONTROL PT 1073
FND CONC MON W/ 3" BRASS CAP
IN CASE - 0.30' BELOW RIM
BENCHMARK 486
EL = 111.50'
VISITED FEBRUARY 2012

COB CONTROL PT 1074
FND CONC MON W/ 2" BRASS CAP
IN CASE - 0.25' BELOW RIM
BENCHMARK 485
EL = 84.01'
VISITED FEBRUARY 2012

SECTION/DETAIL SYMBOLS



PERMIT
SUBMITTAL

JUNE 2012

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

OCT 09 2012

LEGEND
Permit Processing

G2

SHT 2 OF 16

| NO. | DATE | BY | APPR | REVISIONS |
|-----|------|----|------|-----------|
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J. CURTIS 02/2012
DESIGNED BY DATE
J. CURTIS 02/2012
DRAWN BY DATE
N. WONG 02/2012
CHECKED BY DATE



City of
Bellevue
TRANSPORTATION DEPARTMENT

TETRA TECH INC.
400 112th Avenue NE
Suite 400
Bellevue, WA 98004
425-635-1000

West Lake Sammamish Parkway
2012 Slide Repair

File Location: L:\2012\12-009\cadd\trac\Permit_Submittal\Microstation\12-009_Notes.dgn
User: jef.curtis
Plotted: 6/11/2012

WATER GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE 2012 CITY OF BELLEVUE UTILITY ENGINEERING STANDARDS AND THE DEVELOPER EXTENSION AGREEMENT.
2. ALL PIPE SHALL BE DUCTILE IRON CLASS 52 UNLESS OTHERWISE SHOWN
3. ALL PIPE AND FITTINGS NOT TO BE DISINFECTED IN PLACE SHALL BE SWABBED WITH 1% AVAILABLE CHLORINE SOLUTION PRIOR TO INSTALLATION.
4. THE NEW WATERMAIN SHALL BE CONNECTED TO THE EXISTING SYSTEM ONLY AFTER NEW MAIN IS PRESSURE TESTED, FLUSHED, DISINFECTED AND SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS ARE OBTAINED AND RECEIVED BY THE CITY INSPECTOR. SEE STANDARD DETAIL W-9.
5. AFTER DISINFECTING THE WATERMAIN, DISPOSE OF CHLORINATED WATER BY DISCHARGING TO THE NEAREST OPERATING SANITARY SEWER.
6. WATERMAIN SHUT-OFF SHALL BE COORDINATED WITH THE WATER OPERATIONS DIVISION FOR PREFERRED TIMING DURING FLOW CONTROL CONDITIONS. WATERMAIN SHUT-OFFS SHALL NOT BE SCHEDULED TO TAKE PLACE ON FRIDAYS, OR ON THE DAY BEFORE A CITY HOLIDAY, UNLESS OTHERWISE APPROVED BY THE UTILITY.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
8. DEFLECT THE WATERMAIN ABOVE OR BELOW EXISTING UTILITIES AS REQUIRED TO MAINTAIN 3 FT. MINIMUM COVER AND 12 INCH MINIMUM VERTICAL CLEARANCE BETWEEN UTILITIES UNLESS OTHERWISE SPECIFIED.
9. WRAP ALL DUCTILE IRON PIPE AND ADJACENT VALVES AND FITTINGS WITH 8-MIL. POLYETHYLENE CONFORMING TO AWWA C105.
10. THE WATERMAIN SHALL BE INSTALLED ONLY AFTER THE ROADWAY SUBGRADE IS BACKFILLED, GRADED AND COMPACTED IN CUT AND FILL AREAS.
11. NOT USED
12. ALL FITTINGS SHALL BE BLOCKED PER STANDARD DETAILS UNLESS OTHERWISE SPECIFIED.
13. ALL SERVICES SHALL BE 1" X 1" PER STANDARD DETAILS UNLESS OTHERWISE SPECIFIED.
- ADAPTORS FOR 3/4" METERS SHALL BE USED WHERE APPLICABLE.
14. NOT USED
15. CALL 1-800-424-5555, OR 811, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATIONS.
16. UNIFORM PLUMBING CODE REQUIRES THE INSTALLATION OF PRIVATELY OWNED AND OPERATED PRESSURE REDUCING VALVES WHERE THE OPERATING PRESSURE EXCEEDS 80 PSI.
17. THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE ENGINEER. FLUSHING OF STREETS SHALL NOT BE PERMITTED WITHOUT PRIOR CITY APPROVAL.
18. BEFORE COMMENCEMENT OF TRENCHING, THE CONTRACTOR SHALL PROVIDE CATCH BASIN INSERTS FOR ALL CATCH BASINS THAT WILL RECEIVE RUNOFF FROM THE PROJECT SITE. THE CONTRACTOR SHALL PERIODICALLY INSPECT THE CONDITION OF ALL INSERTS AND REPLACE AS NECESSARY.
19. ABANDONMENT OF EXISTING WATER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
 - A. REMOVE EXISTING SERVICE SADDLE FROM WATER MAIN AND REPLACE WITH NEW STAINLESS STEEL REPAIR BAND, ROMAC SS2, ROMAC SERVICE SADDLE 101S WITH BRASS PLUG, OR APPROVED EQUAL (WILL NOT BE REQUIRED WHEN WATER MAIN IS TO BE ABANDONED).
 - B. REMOVE AND DISPOSE OF EXISTING SETTER AND METER BOX.
 - C. CAP OR CRIMP (IF COPPER) EXISTING SERVICE LINE TO BE ABANDONED IN PLACE, EACH END.
 - D. RETURN EXISTING METER TO CITY OF BELLEVUE UTILITIES INSPECTOR.
20. NOT USED
21. AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 TO 90 DEGREES.
22. WHERE WATERMAIN CROSSES ABOVE OR BELOW SANITARY SEWER, ONE FULL LENGTH OF WATER PIPE SHALL BE CENTERED FOR MAXIMUM JOINT SEPARATION.
23. AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN THE CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
24. WORKERS MUST FOLLOW CONFINED SPACE REGULATIONS AND PROCEDURES WHEN ENTERING OR DOING WORK IN COB OWNED CONFINED SPACES. COMPLETED PERMIT MUST BE GIVEN TO THE UTILITIES INSPECTOR PRIOR TO ENTRY.
25. MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
26. WHEN WORK IS TO OCCUR IN EASEMENTS, THE CONTRACTOR SHALL NOTIFY THE EASEMENT GRANTOR AND BELLEVUE UTILITIES IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK (NOT INCLUDING WEEKENDS OR HOLIDAYS). FAILURE TO NOTIFY GRANTOR AND BELLEVUE UTILITIES WILL RESULT IN A STOP WORK ORDER BEING POSTED UNTIL THE MATTER IS RESOLVED TO THE SATISFACTION OF BELLEVUE UTILITIES. A WRITTEN RELEASE FROM THE EASEMENT GRANTOR SHALL BE FURNISHED TO THE UTILITIES INSPECTOR PRIOR TO PERMIT SIGNOFF.
27. THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC UTILITY EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO ENTRY. CONTRACTOR SHALL FURNISH A SIGNED RELEASE FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.

STORM DRAINAGE GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE 2012 EDITION OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT ENGINEERING STANDARDS AND THE DEVELOPER EXTENSION AGREEMENT.
2. STORM PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35 (4" - 15") OR ASTM F-679 (18"-27"). BEDDING AND BACKFILL SHALL BE AS SHOWN IN THE STANDARD DETAILS.
3. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE EXCAVATOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE ENGINEER IF A CONFLICT EXISTS.
4. THE FOOTING DRAINAGE SYSTEM AND THE ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED AND SHALL SEPARATELY CONVEY COLLECTED FLOWS TO THE CONVEYANCE SYSTEM OR TO ON-SITE STORMWATER FACILITIES.
5. PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT OR OTHER HAZARDOUS MATERIALS DO NOT ENTER THE STORM DRAINAGE SYSTEM IN ACCORDANCE WITH THE SITE'S APPROVED SWPPP. FOR ALL CONSTRUCTION DURING THE RAINY SEASON, DOWNHILL BASINS AND INLETS MUST BE PROTECTED WITH CATCH BASIN INSERTS. SIMPLY PLACING FILTER FABRIC UNDER THE GRAIE IS NOT ACCEPTABLE.
6. PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF STORM DRAINAGE WORK, PIPES AND STORM DRAIN STRUCTURES SHALL BE CLEANED AND FLUSHED. ANY OBSTRUCTIONS TO FLOW WITHIN THE STORM DRAIN SYSTEM, (SUCH AS RUBBLE, MORTAR AND WEDGED DEBRIS), SHALL BE REMOVED AT THE NEAREST STRUCTURE. WASH WATER OF ANY SORT SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM OR SURFACE WATERS.
7. NOT USED
8. ALL GRATES IN ROADWAYS SHALL BE DUCTILE IRON, BOLT-LOCKING, VANED GRATES PER THE STANDARD DETAILS. STRUCTURES IN TRAFFIC LANES OUTSIDE OF THE CURBLINE WHICH DO NOT COLLECT RUNOFF SHALL BE FITTED WITH ROUND, BOLT-LOCKING SOLID COVERS. OFF-STREET STRUCTURES WHICH DO NOT COLLECT RUNOFF SHALL BE FITTED WITH BOLT-LOCKING SOLID COVERS.
9. NOT USED
10. ALL NEW MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48" AND SHALL CONFORM TO THE STANDARD DETAILS. ALL NEW CATCH BASINS SHALL CONFORM TO THE STANDARD DETAILS.
11. NOT USED
12. ALL TESTING AND CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT.
13. ALL TRENCHES SHALL BE COMPACTED, AND HOT MIX ASPHALT IN PLACE IN PAVED AREAS, PRIOR TO TESTING STORM LINES FOR ACCEPTANCE.
14. ALL PUBLIC STORM DRAINS SHALL BE AIR TESTED AND HAVE A VIDEO INSPECTION PERFORMED PRIOR TO ACCEPTANCE (SEE #23 BELOW). STORM MAIN CONSTRUCTED WITH FLEXIBLE PIPE SHALL BE DEFLECTION TESTED WITH A MANDREL PRIOR TO ACCEPTANCE.
15. NOT USED
16. ALL MANHOLES/ CATCH BASINS IN UNPAVED AREAS SHALL INCLUDE A CONCRETE SEAL AROUND ADJUSTMENT RINGS PER STANDARD DETAILS.
17. ALL STORM MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE "STAKED" BY A SURVEYOR LICENSED IN WASHINGTON STATE FOR "LINE AND GRADE" AND CUT SHEETS PROVIDED TO THE ENGINEER, PRIOR TO STARTING CONSTRUCTION.

18. THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE ENGINEER. FLUSHING OF STREETS SHALL NOT BE PERMITTED WITHOUT PRIOR CITY APPROVAL.
19. STORM DRAINAGE MAINLINES, STUBS AND FITTINGS SHALL BE CONSTRUCTED USING THE SAME PIPE MATERIAL AND MANUFACTURER. CONNECTIONS BETWEEN STUBS AND THE MAINLINE WILL BE MADE WITH A TEE FITTING. TEE FITTING SHALL BE FROM SAME MANUFACTURER AS PIPE. CUT-IN CONNECTIONS ARE ONLY ALLOWED WHEN CONNECTING A NEW STUB TO AN EXISTING MAINLINE.
20. MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
21. PLACEMENT OF SURFACE APPURTENANCES (MH LIDS, VALVE LIDS, ETC) IN TIRE TRACKS OF TRAFFIC LANES SHALL BE AVOIDED WHENEVER POSSIBLE.
22. CALL 1-800-424-5555, OR 8-1-1, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATES.
23. THE CONTRACTOR SHALL PERFORM A VIDEO INSPECTION AND PROVIDE A DVD OF THE STORM PIPE INTERIOR FOR THE CITY'S REVIEW. THE VIDEO SHALL PROVIDE A MINIMUM OF 14 LINES PER MILLIMETER RESOLUTION AND COVER THE ENTIRE LENGTH OF THE APPLICABLE PIPE. THE CAMERA SHALL BE MOVED THROUGH THE PIPE AT A UNIFORM RATE (? 30 FT/MIN), STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPE CONDITION. THE VIDEO SHALL BE TAKEN AFTER INSTALLATION AND CLEANING TO INSURE THAT NO DEFECTS EXIST. THE PROJECT WILL NOT BE ACCEPTED UNTIL ALL DEFECTS HAVE BEEN REPAIRED.
24. CLEARLY LABEL PUBLIC AND PRIVATE SYSTEMS ON THE PLANS. PRIVATE SYSTEMS SHALL BE MARKED "PRIVATE" AND SHALL BE MAINTAINED BY THE PROPERTY OWNER(S).
25. ALL CONCRETE STRUCTURES (VAULTS, CATCH BASINS, MANHOLES, OIL/WATER SEPARATORS, ETC.) SHALL BE VACUUM TESTED.
26. MANHOLES, CATCH BASINS AND INLETS IN EASEMENTS SHALL BE CONSTRUCTED TO PROVIDE A STABLE, LEVEL GRADE FOR A MINIMUM RADIUS OF 2.5 FEET AROUND THE CENTER OF THE ACCESS OPENING TO ACCOMMODATE CONFINED SPACE ENTRY EQUIPMENT.
27. TOPS OF MANHOLES/ CATCH BASINS WITHIN PUBLIC RIGHT-OF-WAY SHALL NOT BE ADJUSTED TO FINAL GRADE UNTIL AFTER PAVING.
28. CONTRACTOR SHALL ADJUST ALL MANHOLE/ CATCH BASIN RIMS TO FLUSH WITH FINAL FINISHED GRADES, UNLESS OTHERWISE SHOWN.
29. CONTRACTOR SHALL INSTALL AT ALL CONNECTIONS TO EXISTING DOWN STREAM MANHOLES/ CATCH BASINS, SCREENS OR PLUGS TO PREVENT FOREIGN MATERIALS FROM ENTERING EXISTING STORM DRAINAGE SYSTEM. SCREENS OR PLUGS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE CONSTRUCTION AND SHALL BE REMOVED ALONG WITH COLLECTED DEBRIS AT THE TIME OF FINAL INSPECTION AND IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT.
30. SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.
31. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF FIVE FEET (5') HORIZONTAL SEPARATION BETWEEN ALL WATER AND STORM DRAINAGE LINES. ANY CONFLICT SHALL BE REPORTED TO THE UTILITY AND THE DEVELOPER'S ENGINEER PRIOR TO CONSTRUCTION.
32. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO CONFLICTS EXIST BETWEEN STORM DRAINAGE LINES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
33. BEFORE COMMENCEMENT OF TRENCHING, THE CONTRACTOR SHALL PROVIDE FILTER FABRIC FOR ALL DOWNHILL STORM DRAIN INLETS AND CATCH BASINS, WHICH WILL RECEIVE RUNOFF FROM THE PROJECT SITE. THE CONTRACTOR SHALL PERIODICALLY INSPECT THE CONDITION OF ALL FILTER FABRIC AND REPLACE AS NECESSARY.
34. MINIMUM COVER OVER STORM DRAINAGE PIPE SHALL BE 2 FEET, UNLESS OTHERWISE SHOWN.
35. AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 DEGREES.
36. AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
37. WHEN WORK IS TO OCCUR IN EASEMENTS, THE CONTRACTOR SHALL NOTIFY THE EASEMENT GRANTOR AND BELLEVUE UTILITIES IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK (NOT INCLUDING WEEKENDS OR HOLIDAYS). FAILURE TO NOTIFY GRANTOR AND BELLEVUE UTILITIES WILL RESULT IN A STOP WORK ORDER BEING POSTED UNTIL THE MATTER IS RESOLVED TO THE SATISFACTION OF BELLEVUE UTILITIES. A WRITTEN RELEASE FROM THE EASEMENT GRANTOR SHALL BE FURNISHED TO THE UTILITIES INSPECTOR PRIOR TO PERMIT SIGNOFF.
38. THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC STORM DRAINAGE EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO ENTRY. THE CONTRACTOR SHALL FURNISH A SIGNED RELEASE FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.
39. NOT USED

EROSION CONTROL STANDARD NOTES

1. ALL CLEARING & GRADING CONSTRUCTION MUST BE IN ACCORDANCE WITH CITY OF BELLEVUE (COB) CLEARING & GRADING CODE, CLEARING & GRADING DEVELOPMENT STANDARDS, LAND USE CODE, UNIFORM BUILDING CODE, PERMIT CONDITIONS, AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND STANDARDS. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THESE REQUIREMENTS. ANY VARIANCE FROM ADOPTED EROSION CONTROL STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY OF BELLEVUE DEVELOPMENT SERVICES (DSD) PRIOR TO CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO THE COB.
2. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
3. A COPY OF THE APPROVED PLANS AND DRAWINGS MUST BE ON-SITE DURING CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION.
4. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
7. ALL LOCATIONS OF EXISTING UTILITIES HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED ONLY APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
8. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
9. CLEARING SHALL BE LIMITED TO THE AREAS WITHIN THE APPROVED DISTURBANCE LIMITS. EXPOSED SOILS MUST BE COVERED AT THE END OF EACH WORKING DAY WHEN WORKING FROM OCTOBER 1ST THROUGH APRIL 30TH . FROM MAY 1ST THROUGH SEPTEMBER 30TH , EXPOSED SOILS MUST BE COVERED AT THE END OF EACH CONSTRUCTION WEEK AND ALSO AT THE THREAT OF RAIN.
10. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
11. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT.
12. THE CONTRACTOR MUST MAINTAIN A SWEEPER ON SITE DURING EARTHWORK AND IMMEDIATELY REMOVE SOIL THAT HAS BEEN TRACKED ONTO PAVED AREAS AS RESULT OF CONSTRUCTION.
13. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
14. ANY EXCAVATED MATERIAL REMOVED FROM THE CONSTRUCTION SITE AND DEPOSITED ON PROPERTY WITHIN THE CITY LIMITS MUST BE DONE IN COMPLIANCE WITH A VALID CLEARING & GRADING PERMIT. LOCATIONS FOR THE MOBILIZATION AREA AND STOCKPILED MATERIAL MUST BE APPROVED BY THE CLEARING AND GRADING INSPECTOR AT LEAST 24 HOURS IN ADVANCE OF ANY STOCKPILING.
15. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
16. FINAL SITE GRADING MUST DIRECT DRAINAGE AWAY FROM ALL BUILDING STRUCTURES AT A MINIMUM 5% SLOPE, PER THE INTERNATIONAL RESIDENTIAL CODE (IRC) R401.3.

CONSTRUCTION NOISE NOTES

CONSTRUCTION NOISE OUTSIDE THE ALLOWABLE HOURS IS PROHIBITED PER BCC 9.18.040. TO BE CONSIDERED A VIOLATION, THE CONSTRUCTION-RELATED NOISE MUST BE AUDIBLE ACROSS A PROPERTY LINE OR AT LEAST 75 FEET FROM THE SOURCE. ANY VIOLATION IS A CIVIL INFRACTION AND THE CITY MAY ASSESS A MONETARY PENALTY TO THE INDIVIDUAL CREATING THE NOISE. THE PENALTIES ARE:

1. A WARNING WILL BE ISSUED IF NO CONSTRUCTION NOISE VIOLATION HAS BEEN COMMITTED BY THE SAME PERSON WITHIN THE PREVIOUS TWO YEARS AT ANY LOCATION WITHIN THE CITY.
2. A CITATION WILL BE ISSUED AND A \$125 FINE IMPOSED IF ONE PREVIOUS VIOLATION HAS BEEN COMMITTED BY THE SAME PERSON WITHIN THE PREVIOUS TWO YEARS AT ANY LOCATION WITHIN THE CITY.
3. A CITATION WILL BE ISSUED AND A \$250 FINE IMPOSED IF TWO OR MORE PREVIOUS VIOLATIONS HAVE BEEN COMMITTED BY THE SAME PERSON WITHIN THE PREVIOUS TWO YEARS AT ANY LOCATION WITHIN THE CITY.

MOBILIZATION/STOCKPILE AREA NOTES

ANY EXCAVATED MATERIAL REMOVED FROM THE CONSTRUCTION SITE AND DEPOSITED ON PROPERTY WITHIN THE CITY LIMITS MUST BE DONE IN COMPLIANCE WITH A VALID CLEARING & GRADING PERMIT. LOCATIONS FOR THE MOBILIZATION AREA AND STOCKPILED MATERIAL MUST BE APPROVED BY THE PCD INSPECTOR AT LEAST 24 HOURS IN ADVANCE OF ANY DUMPING.

STREET SWEEPING NOTE

CONTRACTOR SHALL IMMEDIATELY SWEEP THE PAVED CITY RIGHT-OF-WAY WHEN DIRT OR OTHER CONSTRUCTION RELATED DEBRIS IS DEPOSITED.

DUST SUPPRESSION

DUST FROM CLEARING, GRADING, AND OTHER CONSTRUCTION ACTIVITIES SHALL BE MINIMIZED AT ALL TIMES. ANY DUST SUPPRESSANTS USED SHALL BE APPROVED BY THE DIRECTOR. PETROCHEMICAL DUST SUPPRESSANTS ARE PROHIBITED. WATERING THE SITE TO SUPPRESS DUST IS ALSO PROHIBITED UNLESS IT CAN BE DONE IN A WAY THAT KEEPS SEDIMENT OUT OF THE PUBLIC DRAINAGE SYSTEM.

DESIGN CHANGES AFTER PERMIT ISSUANCE

IF UTILITIES DESIGN CHANGES RESULT IN CHANGES TO THE CLEARING LIMITS SHOWN ON THESE PLANS, THE APPLICANT MUST SUBMIT A REVISION TO THE CLEARING AND GRADING PERMIT THAT INDICATES THE LOCATION OF THE NEW CLEARING LIMITS.

GEOTECHNICAL NOTES

THE PROJECT GEOTECHNICAL ENGINEER OF RECORD OR HIS REPRESENTATIVE MUST BE ONSITE DURING CRITICAL EARTHWORK OPERATIONS. THE GEOTECHNICAL ENGINEER SHALL OBSERVE ALL EXCAVATIONS AND FILL AREAS. IN ADDITION, THE ENGINEER SHALL INSPECT THE SOIL CUTS PRIOR TO CONSTRUCTION OF THE ROCKERIES AND INSPECT THE COMPACTION IN FILL AREAS. THE ENGINEER MUST SUBMIT FIELD REPORTS IN WRITING TO THE PCD INSPECTOR FOR SOILS VERIFICATION AND FOUNDATION CONSTRUCTION. ALL EARTHWORK SHOULD BE IN CONFORMANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.

THE GEOTECHNICAL ENGINEER MUST BE PRESENT AT THE PRE-CONSTRUCTION MEETING. IN ADDITION, THE FOLLOWING CONSTRUCTION STAGES MUST BE INSPECTED, MONITORED, AND TESTED AS NECESSARY BY THE GEOTECHNICAL ENGINEER OF RECORD:

1. SITE CLEARING AND STRIPPING OF ORGANIC TOPSOIL FOR ALL AREAS TO RECEIVE STRUCTURAL FILL, PAVEMENTS, OR FOUNDATIONS.
2. CUT SLOPES OVER FOUR FEET HIGH.
3. BENCHING FOR FILL TO BE PLACED ON SLOPES.
4. INSPECTION OF PROPOSED IMPORT FILL MATERIAL, PRIOR TO PLACEMENT.
5. PLACEMENT OF STRUCTURAL FILL, INCLUDING OBSERVATION OF PROPER MOISTURE CONTENT, LIFT THICKNESS, AND MINIMUM COMPACTION.
6. SUBGRADES FOR RETAINING WALLS, FOUNDATIONS, AND FOR THE BASE OF ROCKERIES.
7. INSTALLATION OF SUBSURFACE DRAINAGE FACILITIES.
8. UTILITY TRENCH BEDDING AND BACKFILL, INCLUDING OBSERVATION OF PROPER MOISTURE CONTENT, LIFT THICKNESS, AND MINIMUM COMPACTION.
9. UTILITIES ON STEEP SLOPES; SLOPE ANCHORS AND/OR BACKFILL SLOPE STABILIZATION.
10. ANY UNUSUAL SEEPAGE, SLOPE, OR SUBGRADE CONDITION AS DELINEATED IN THE GEOTECHNICAL REPORT OR DISCOVERED IN THE FIELD.

AT THE END OF THE CONSTRUCTION, THE GEOTECHNICAL ENGINEER SHALL SUBMIT A FINAL SUMMARY LETTER VERIFYING THAT CRITICAL STAGES OF THE CONSTRUCTION HAVE BEEN INSPECTED AND ARE IN CONFORMANCE WITH GEOTECHNICAL REPORT.

SPECIFICATIONS NOTES

1. SPECIFICATIONS SHALL BE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION 2012 M41-10, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE NOTED.

PERMIT
SUBMITTAL

JUNE 2012

CALL 2 DAYS
BEFORE YOU DIG
800-424-5555

OCT 09 2012
GENERAL NOTES

Permit Processing

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SHT 3 OF 16



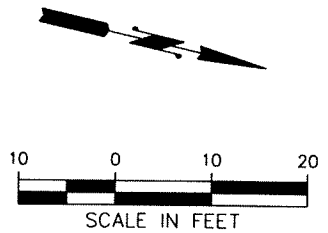
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T. ERICKSON 02/2012
CHECKED BY DATE



City of
Bellevue
TRANSPORTATION DEPARTMENT

TETRA TECH INC
400 112th Avenue NE
Suite 400
Bellevue, WA 98004
425-635-1000

West Lake Sammamish Parkway
2012 Slide Repair



LEGEND

----- EXISTING ROW
----- PROPERTY LINE

PERMANENT WALL EASEMENT
 TEMPORARY CONSTRUCTION EASEMENT

TOTAL PERMANENT WALL EASEMENT =2348 SF
0.054 AC

TOTAL TEMPORARY EASEMENT =4453 SF
0.102 AC

KENT W. HOWARD AND PAMELA D. HOWARD
542 WEST LAKE SAMMAMISH PARKWAY SE
PARCEL NUMBER: 7524900050

JOHN P. TESSIER AND LINDA S. TESSIER
540 WEST LAKE SAMMAMISH PARKWAY SE
PARCEL NUMBER: 7524900045

BENJAMIN RHODEA AND BETSY RHODEA
538 WEST LAKE SAMMAMISH PARKWAY SE
PARCEL NUMBER: 7524900040

MICHAEL S. MERHEJ
534 WEST LAKE SAMMAMISH PARKWAY SE
PARCEL NUMBER: 7524900035

PERMIT SUBMITTAL
JUNE 2012

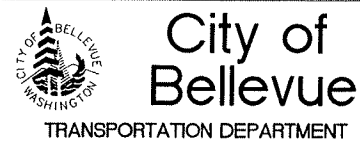
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1-800-455-5555
OCT 09 2012

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User: jericurris
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N. WONG 02/2012
DESIGNED BY J. CURTIS 02/2012
DRAWN BY T. ERICKSON 02/2012
CHECKED BY DATE

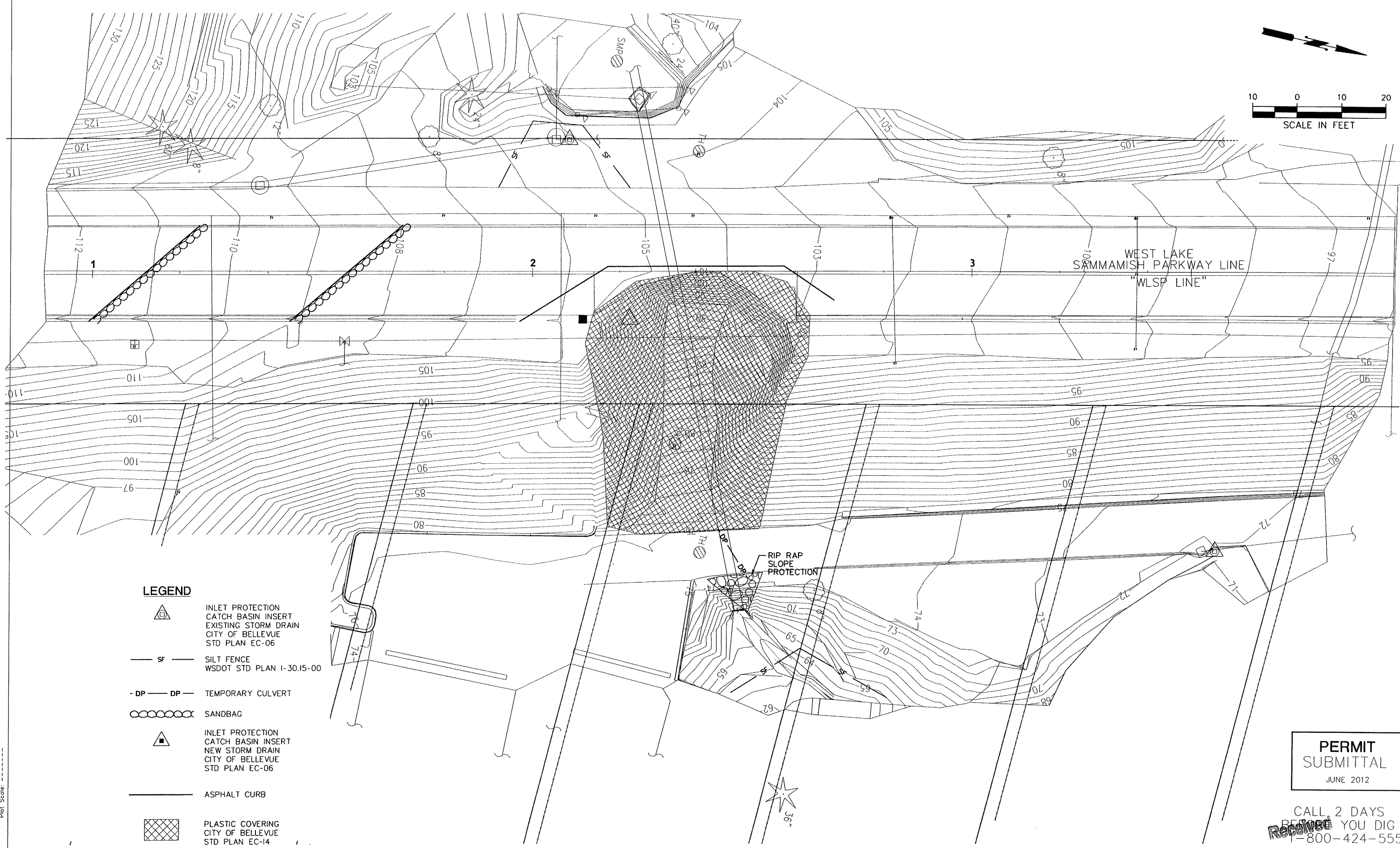
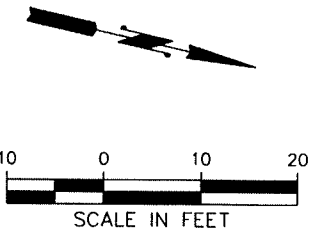









TETRA TECH INC.
400 112th Avenue NE
Suite 400
Bellevue, WA 98004
425-635-1000

West Lake Sammamish Parkway

2012 Slide Repair

EASEMENT
Permit Processing



- LEGEND**
-  INLET PROTECTION
CATCH BASIN INSERT
EXISTING STORM DRAIN
CITY OF BELLEVUE
STD PLAN EC-06
 -  SIFT FENCE
WSDOT STD PLAN 1-30.15-00
 -  TEMPORARY CULVERT
 -  SANDBAG
 -  INLET PROTECTION
CATCH BASIN INSERT
NEW STORM DRAIN
CITY OF BELLEVUE
STD PLAN EC-06
 -  ASPHALT CURB
 -  PLASTIC COVERING
CITY OF BELLEVUE
STD PLAN EC-14

**PERMIT
SUBMITTAL**
JUNE 2012

CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

OCT 09 2012

TEMPORARY EROSION AND
SEDIMENTATION CONTROL PLAN
Permit Process

EC1 SHT 5 OF 16

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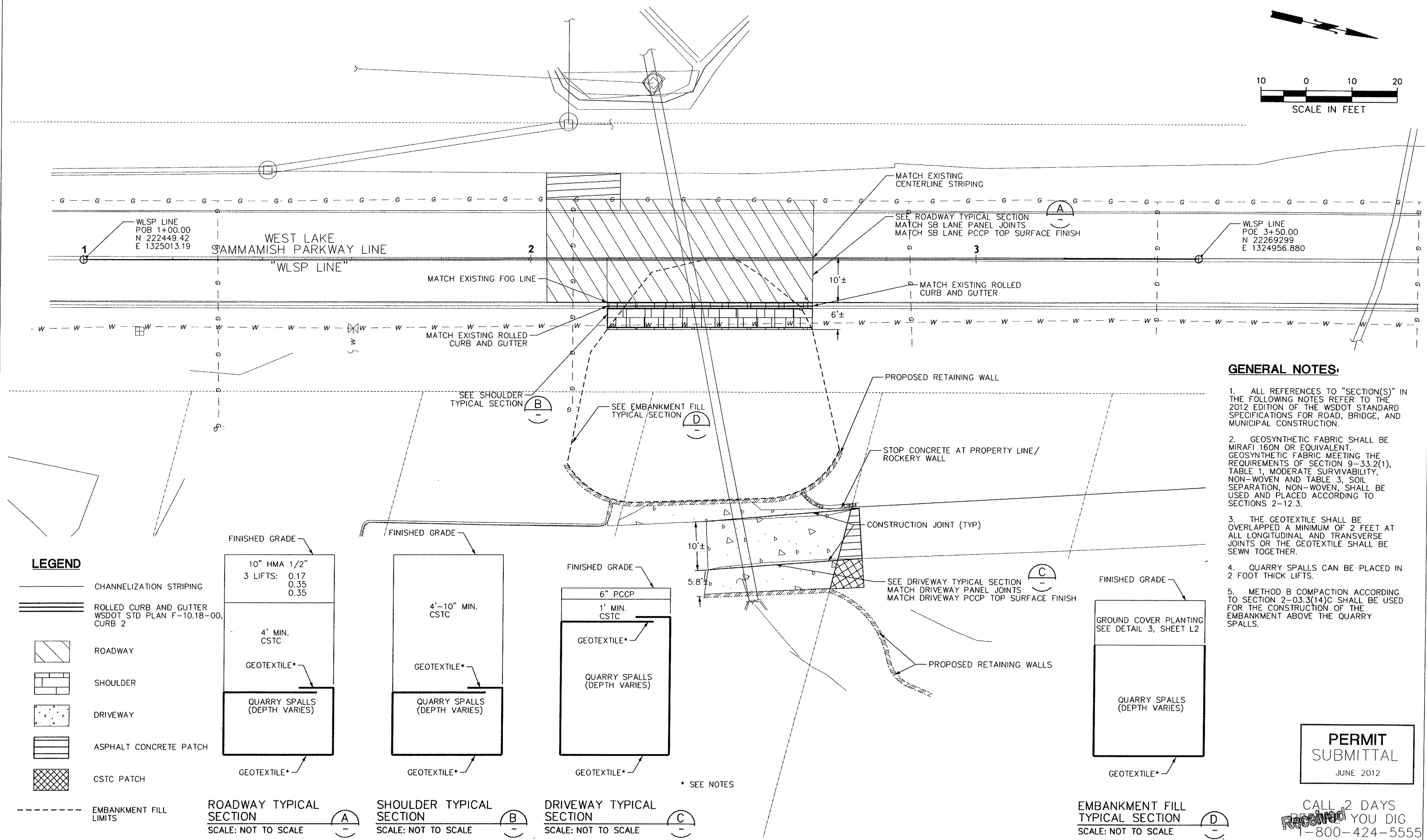
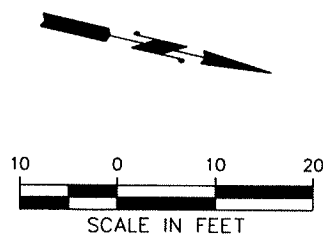
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T. ERICKSON 02/2012
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**City of
Bellevue**
TRANSPORTATION DEPARTMENT

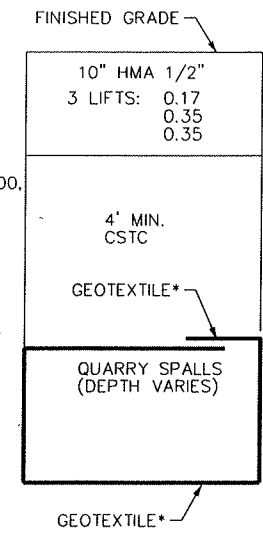
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West Lake Sammamish Parkway
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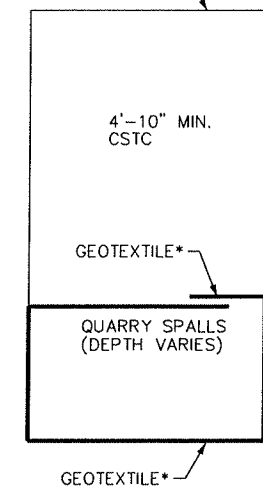


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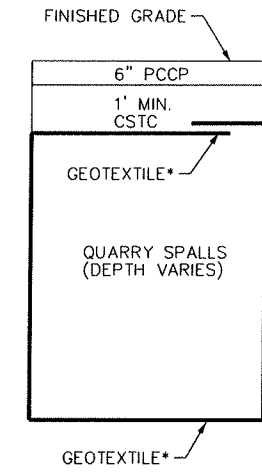
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- ROLLED CURB AND GUTTER
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CURB 2
- ROADWAY
- SHOULDER
- DRIVEWAY
- ASPHALT CONCRETE PATCH
- CSTC PATCH
- EMBANKMENT FILL LIMITS



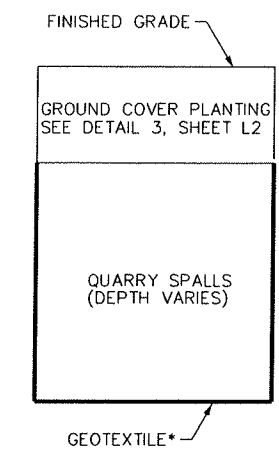
ROADWAY TYPICAL SECTION
SCALE: NOT TO SCALE



SHOULDER TYPICAL SECTION
SCALE: NOT TO SCALE



DRIVEWAY TYPICAL SECTION
SCALE: NOT TO SCALE



EMBANKMENT FILL TYPICAL SECTION
SCALE: NOT TO SCALE

GENERAL NOTES:

- ALL REFERENCES TO "SECTION(S)" IN THE FOLLOWING NOTES REFER TO THE 2012 EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- GEOSYNTHETIC FABRIC SHALL BE MIRAFI 160N OR EQUIVALENT. GEOSYNTHETIC FABRIC MEETING THE REQUIREMENTS OF SECTION 9-33.2(1), TABLE 1, MODERATE SURVIVABILITY, NON-WOVEN AND TABLE 3, SOIL SEPARATION, NON-WOVEN, SHALL BE USED AND PLACED ACCORDING TO SECTIONS 2-12.3.
- THE GEOTEXTILE SHALL BE OVERLAPPED A MINIMUM OF 2 FEET AT ALL LONGITUDINAL AND TRANSVERSE JOINTS OR THE GEOTEXTILE SHALL BE SEWN TOGETHER.
- QUARRY SPALLS CAN BE PLACED IN 2 FOOT THICK LIFTS.
- METHOD B COMPACTION ACCORDING TO SECTION 2-03.3(14)C SHALL BE USED FOR THE CONSTRUCTION OF THE EMBANKMENT ABOVE THE QUARRY SPALLS.

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ROADWAY & PAVING PLAN
Permit Processing

File Location: L:\2012\12-009\Roadway\Permit Submittal\Microstation\12-009_Roadway.dgn
User: jeff.curtis
Plotted: 5/11/2012

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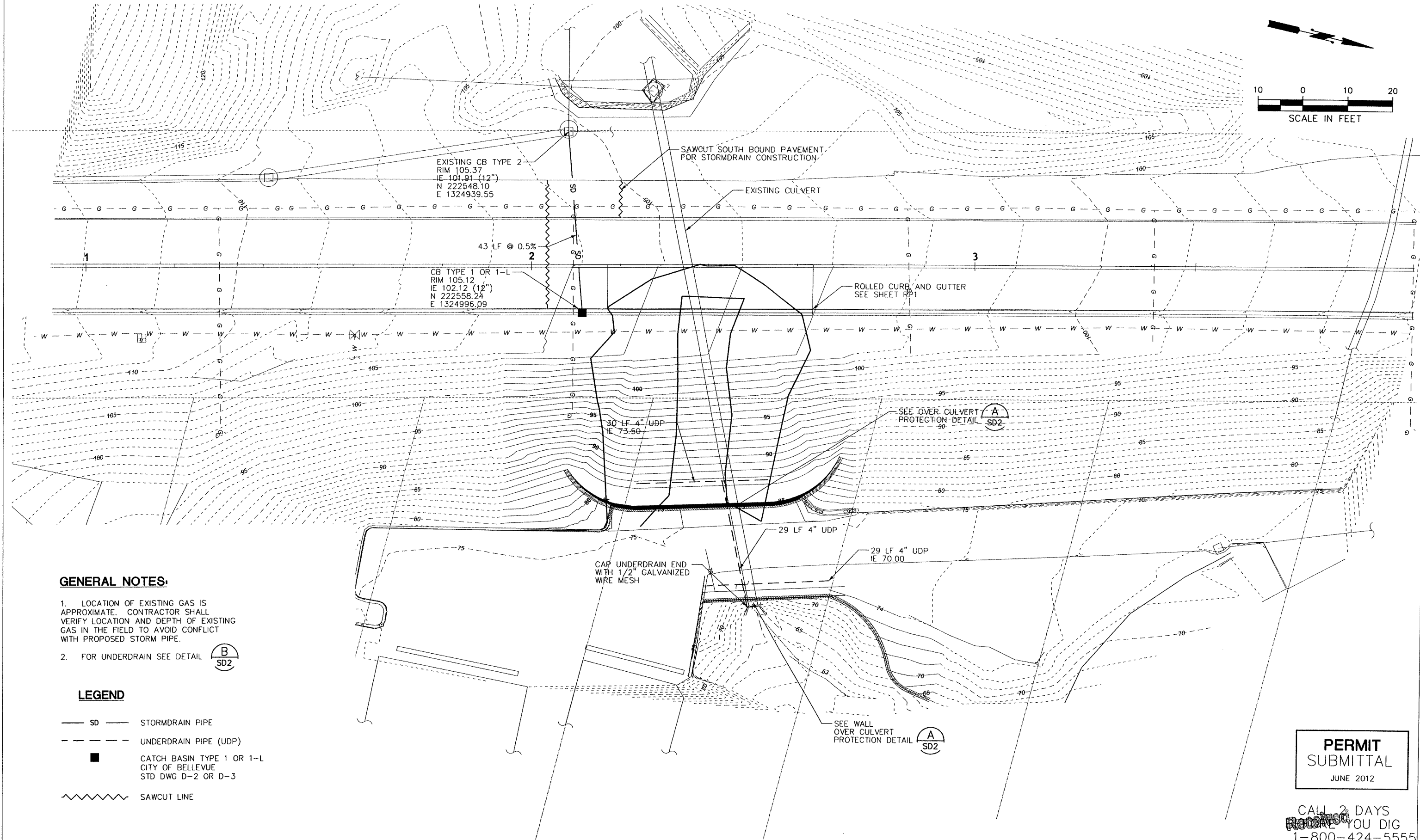
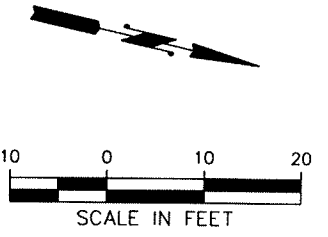
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N. WONG 02/2012
DRAWN BY DATE
T. ERICKSON 02/2012
CHECKED BY DATE



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
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400 112th Avenue NE
Suite 400
Bellevue, WA 98004
425-635-1000

West Lake Sammamish Parkway
2012 Slide Repair







GENERAL NOTES:

1. LOCATION OF EXISTING GAS IS APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING GAS IN THE FIELD TO AVOID CONFLICT WITH PROPOSED STORM PIPE.

2. FOR UNDERDRAIN SEE DETAIL  SD2

LEGEND

-  SD STORMDRAIN PIPE
-  UNDERDRAIN PIPE (UDP)
-  CATCH BASIN TYPE 1 OR 1-L CITY OF BELLEVUE STD DWG D-2 OR D-3
-  SAWCUT LINE

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STORM DRAINAGE PLAN
Permit Processing

File Location: L:\2012\12-009\load\trns\Permit Submittal\Microstation\12-009 Drainage.dgn
User: jeff.curtis
Plotted: 6/11/2012
Plot Scale: -----

1. SEE SHEET W-3, DETAIL 4, FOR CULVERT CROSSING DETAIL AT EAST AND WEST WALLS.
2. DRAINAGE GEOTEXTILE SHALL BE FOR UNDERGROUND DRAINAGE FILTRATION, CLASS A. SEE WSDOT STANDARD SPECIFICATIONS 9-33.2(1), TABLE 2.



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STORM DRAINAGE DETAILS
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SD2

SHT 8 **OF** 16

[illegible]

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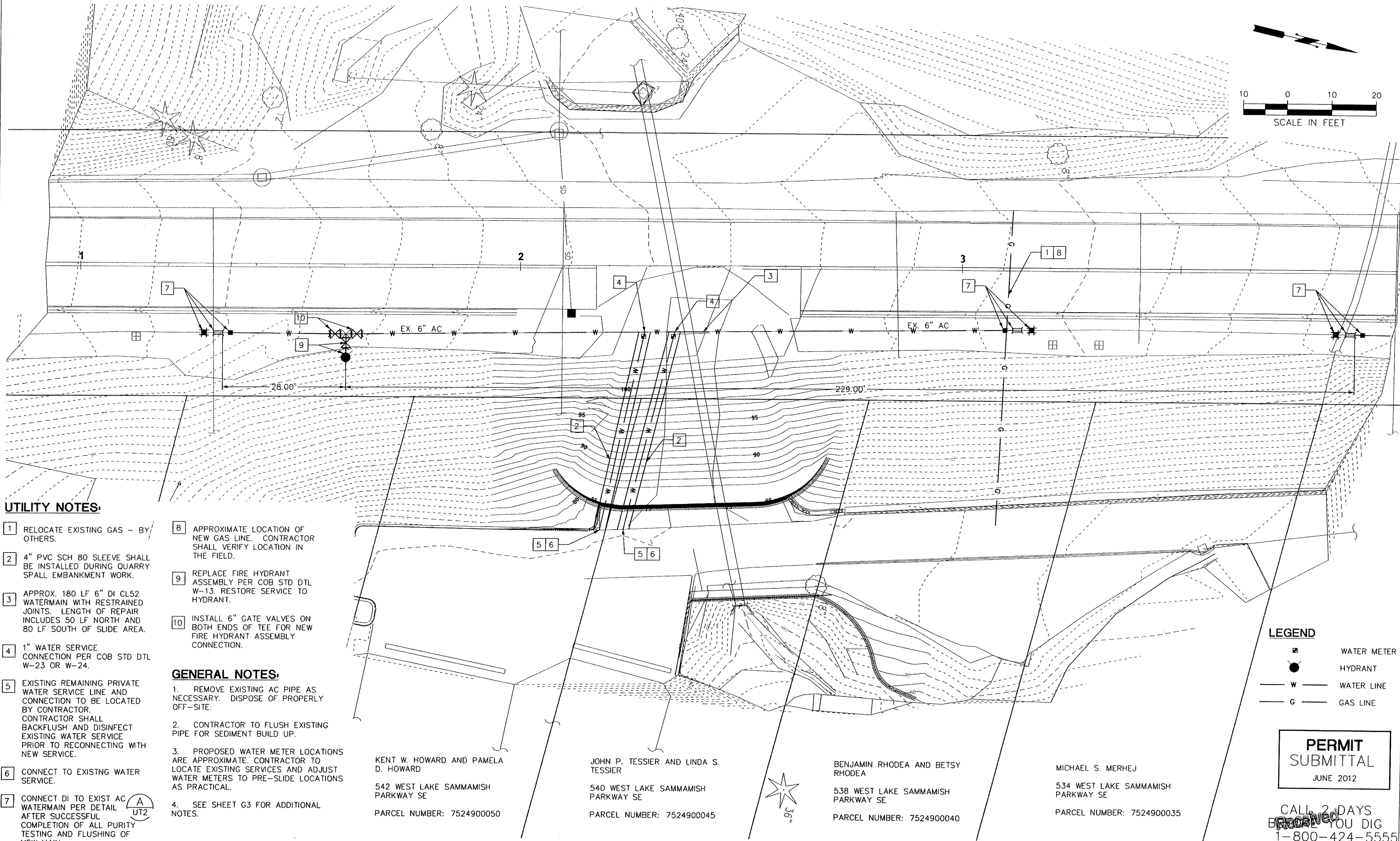
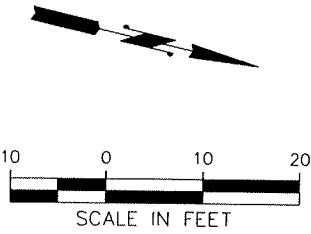


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UTILIZATION DEPARTMENT



West Lake Sammamish Parkway

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UTILITY NOTES:

- 1 RELOCATE EXISTING GAS - BY OTHERS.
- 2 4" PVC SCH 80 SLEEVE SHALL BE INSTALLED DURING QUARRY SPALL EMBANKMENT WORK.
- 3 APPROX. 180 LF 6" DI CL52 WATERMAIN WITH RESTRAINED JOINTS. LENGTH OF REPAIR INCLUDES 50 LF NORTH AND 80 LF SOUTH OF SLIDE AREA.
- 4 1" WATER SERVICE CONNECTION PER COB STD DTL W-23 OR W-24.
- 5 EXISTING REMAINING PRIVATE WATER SERVICE LINE AND CONNECTION TO BE LOCATED BY CONTRACTOR. CONTRACTOR SHALL BACKFLUSH AND DISINFECT EXISTING WATER SERVICE PRIOR TO RECONNECTING WITH NEW SERVICE.
- 6 CONNECT TO EXISTING WATER SERVICE.
- 7 CONNECT DI TO EXIST AC WATERMAIN PER DETAIL (A) UT2 AFTER SUCCESSFUL COMPLETION OF ALL PURITY TESTING AND FLUSHING OF NEW MAIN.
- 8 APPROXIMATE LOCATION OF NEW GAS LINE. CONTRACTOR SHALL VERIFY LOCATION IN THE FIELD.
- 9 REPLACE FIRE HYDRANT ASSEMBLY PER COB STD DTL W-13. RESTORE SERVICE TO HYDRANT.
- 10 INSTALL 6" GATE VALVES ON BOTH ENDS OF TEE FOR NEW FIRE HYDRANT ASSEMBLY CONNECTION.

GENERAL NOTES:

- 1. REMOVE EXISTING AC PIPE AS NECESSARY. DISPOSE OF PROPERLY OFF-SITE.
- 2. CONTRACTOR TO FLUSH EXISTING PIPE FOR SEDIMENT BUILD UP.
- 3. PROPOSED WATER METER LOCATIONS ARE APPROXIMATE. CONTRACTOR TO LOCATE EXISTING SERVICES AND ADJUST WATER METERS TO PRE-SLIDE LOCATIONS AS PRACTICAL.
- 4. SEE SHEET G3 FOR ADDITIONAL NOTES.

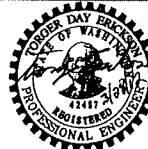
LEGEND

- WATER METER
- HYDRANT
- W WATER LINE
- G GAS LINE

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T. ERICKSON 02/2012
CHECKED BY DATE



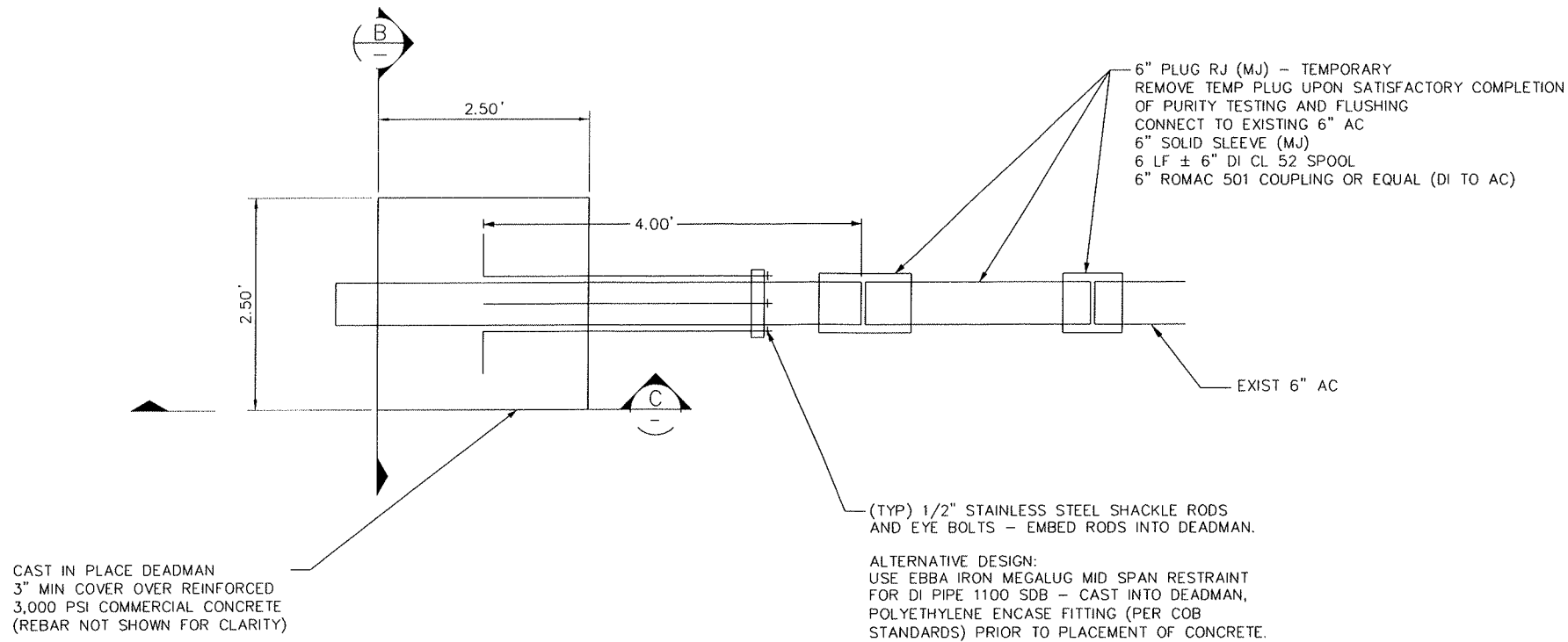
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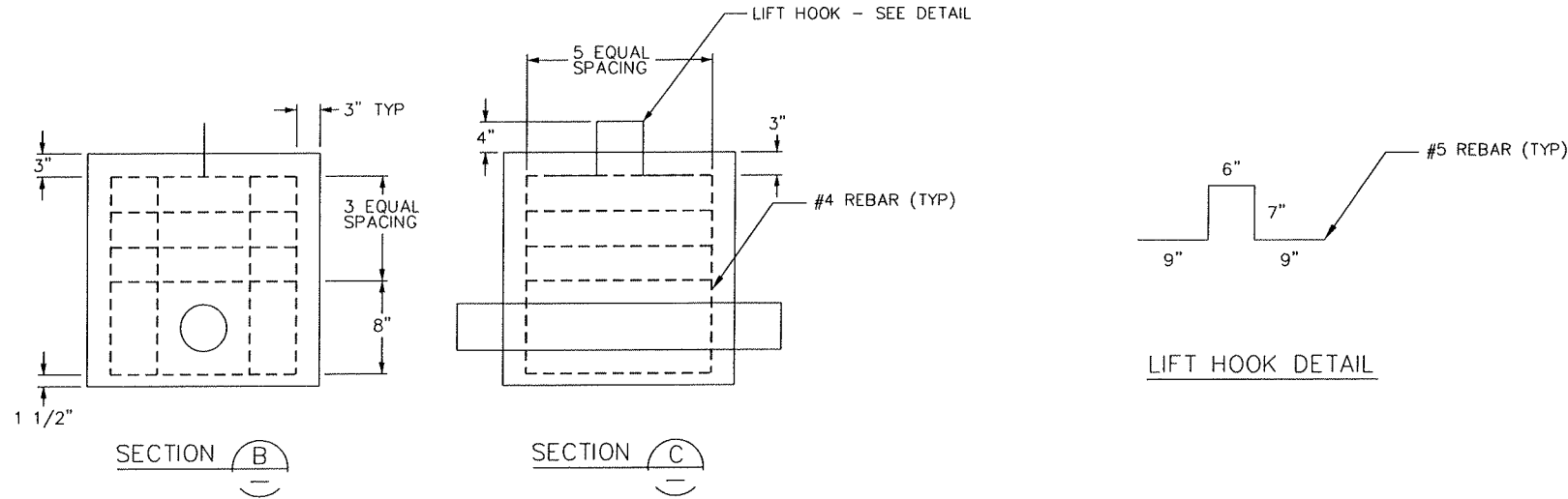
UTILITY PLAN
Permit Processing

File Location: L:\2012\12-009\cadd\trans\Permit Submittal\Microstation\12-009 Utility Detail.dgn
User: jeff.curtis
Plotted: 6/11/2012
Plot Scale: -----



**DI TO AC
CONNECTION DETAIL** A
SCALE: NOT TO SCALE UT1

PLAN



**CAST IN PLACE
DEADMAN SECTION**

LIFT HOOK DETAIL

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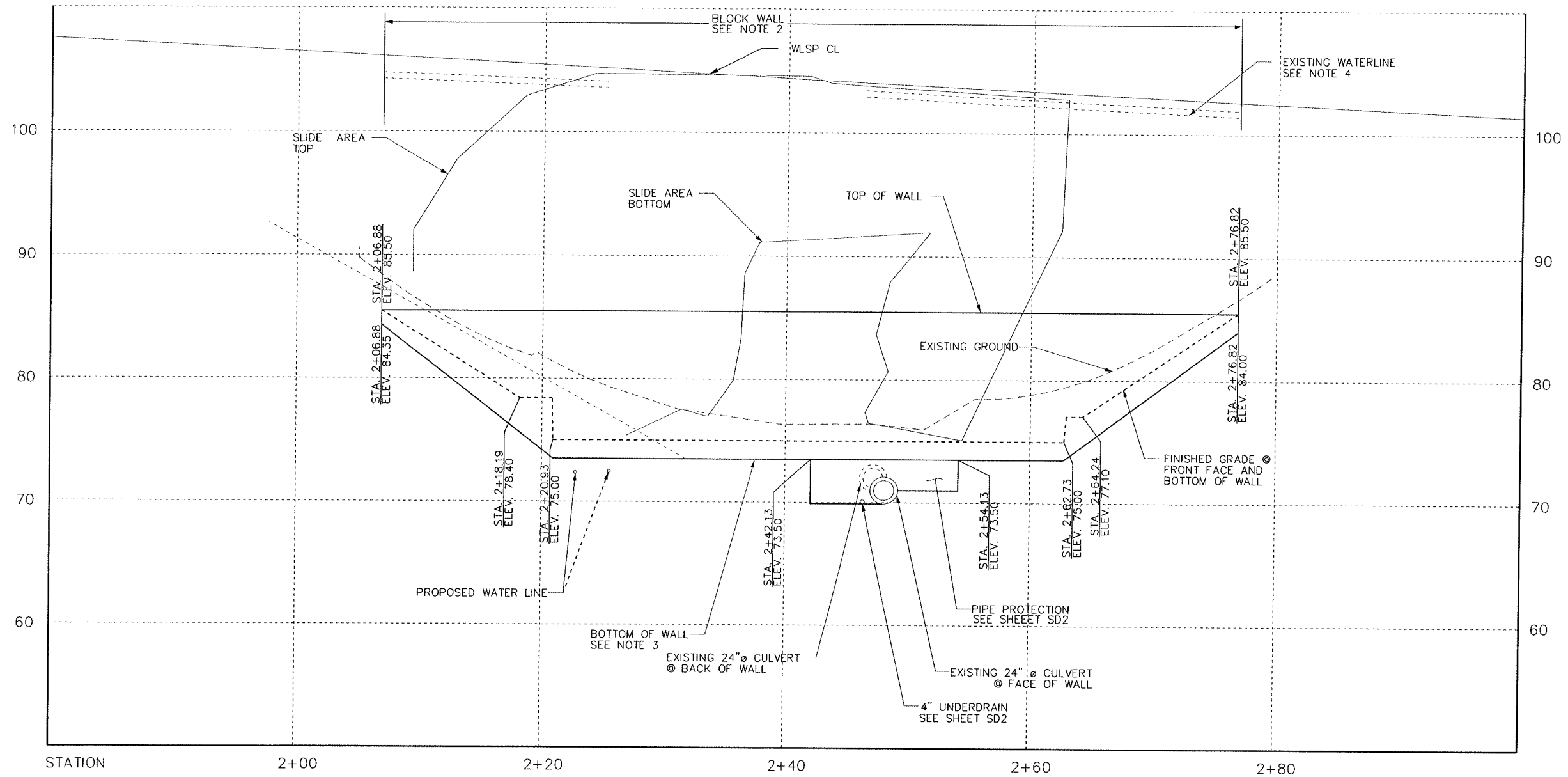


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UT2 SHT 10 OF 16



WEST "A" WALL PROFILE

- NOTES:
1. MIN LENGTH OF WALL SHOWN. EXTEND WALL AS NEEDED.
 2. SEE SHEET WL4 FOR BLOCK WALL SECTION.
 3. MIN EMBEDMENT PER WALL MANUFACTURER'S REQUIREMENTS.
 4. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.



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WEST WALL PROFILE
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WL2 SHT 12 OF 16

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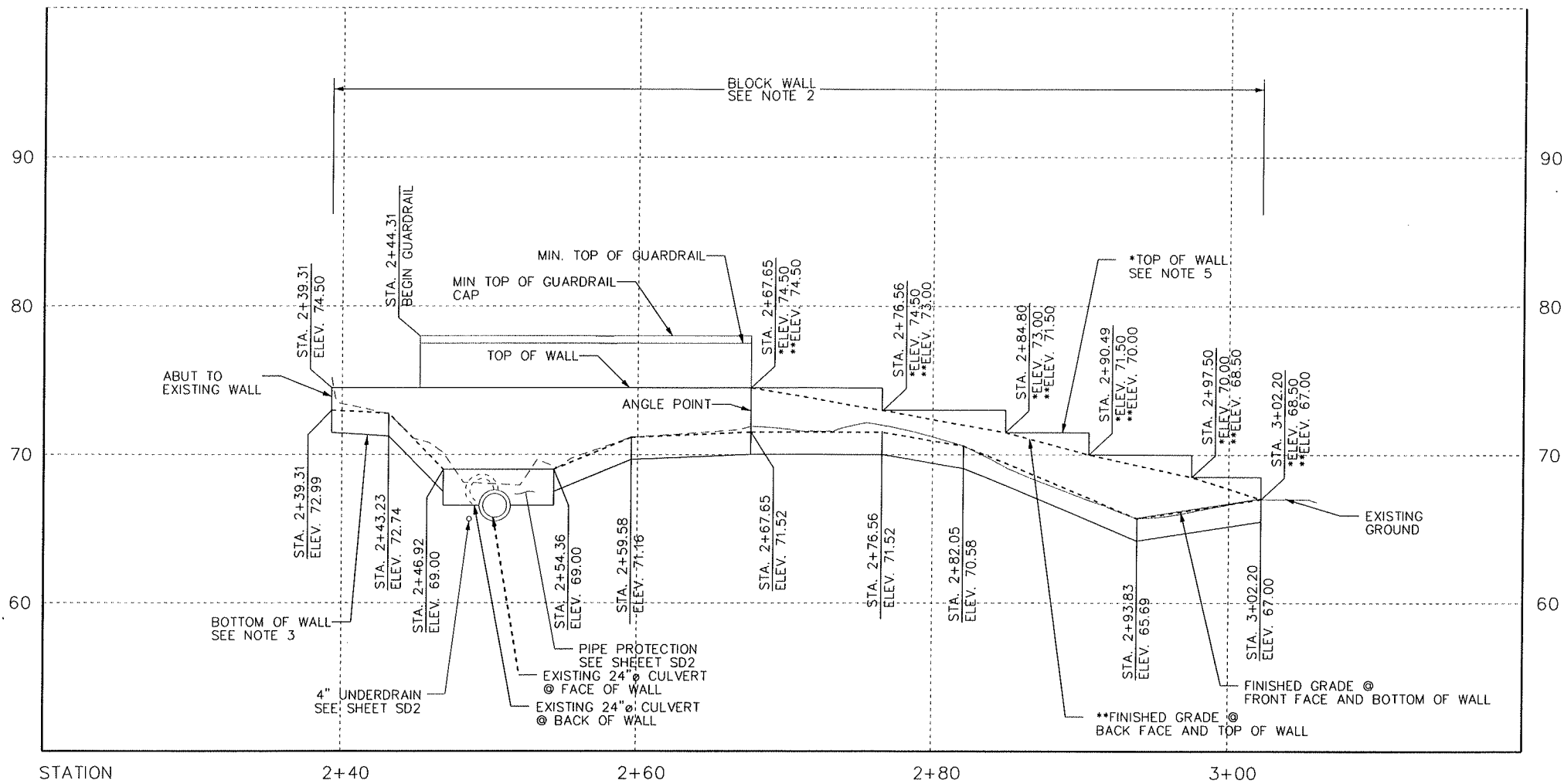
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DESIGNED BY R. HOWARD 02/2012
DRAWN BY E. GO 02/2012
CHECKED BY 02/2012



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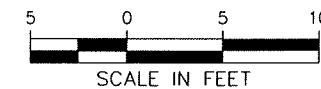
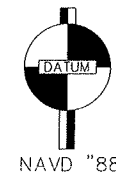
West Lake Sammamish Parkway
2012 Slide Repair



EAST "B" WALL PROFILE

NOTES:

1. MIN LENGTH OF WALL SHOWN. EXTEND WALL AS NEEDED.
2. SEE SHEET WL4 FOR BLOCK WALL TYPICAL SECTION.
3. MIN EMBEDMENT PER WALL MANUFACTURER'S REQUIREMENTS.
4. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
5. *WALL MANUFACTURER MAY VARY WALL STEPS AS NEEDED FOR BLOCK STANDARD DIMENSIONS WHILE MAINTAINING WALL HEIGHT ABOVE FINISHED GRADE @ BACK FACE AND TOP OF WALL.
6. ** ELEVATION SHOWN IS TO FINISHED GRADE AT BACK FACE OF WALL.



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EAST WALL PROFILE
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WL3 SHT 13 OF 16

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DRAWN BY DATE
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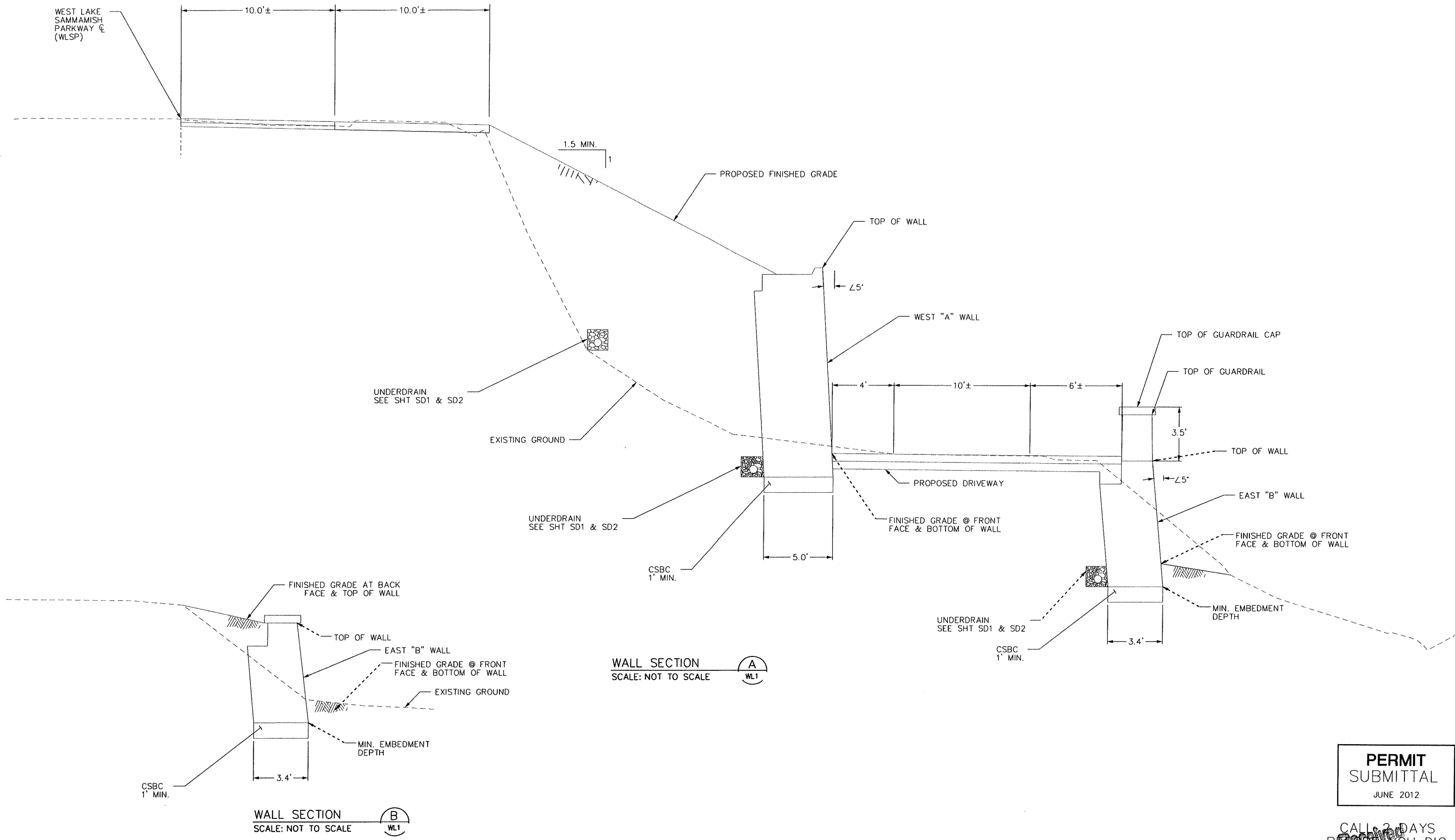


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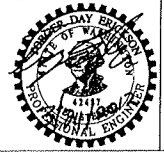
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User: jeff.curtis
Plotted: 6/11/2012
Plot Scale: -----



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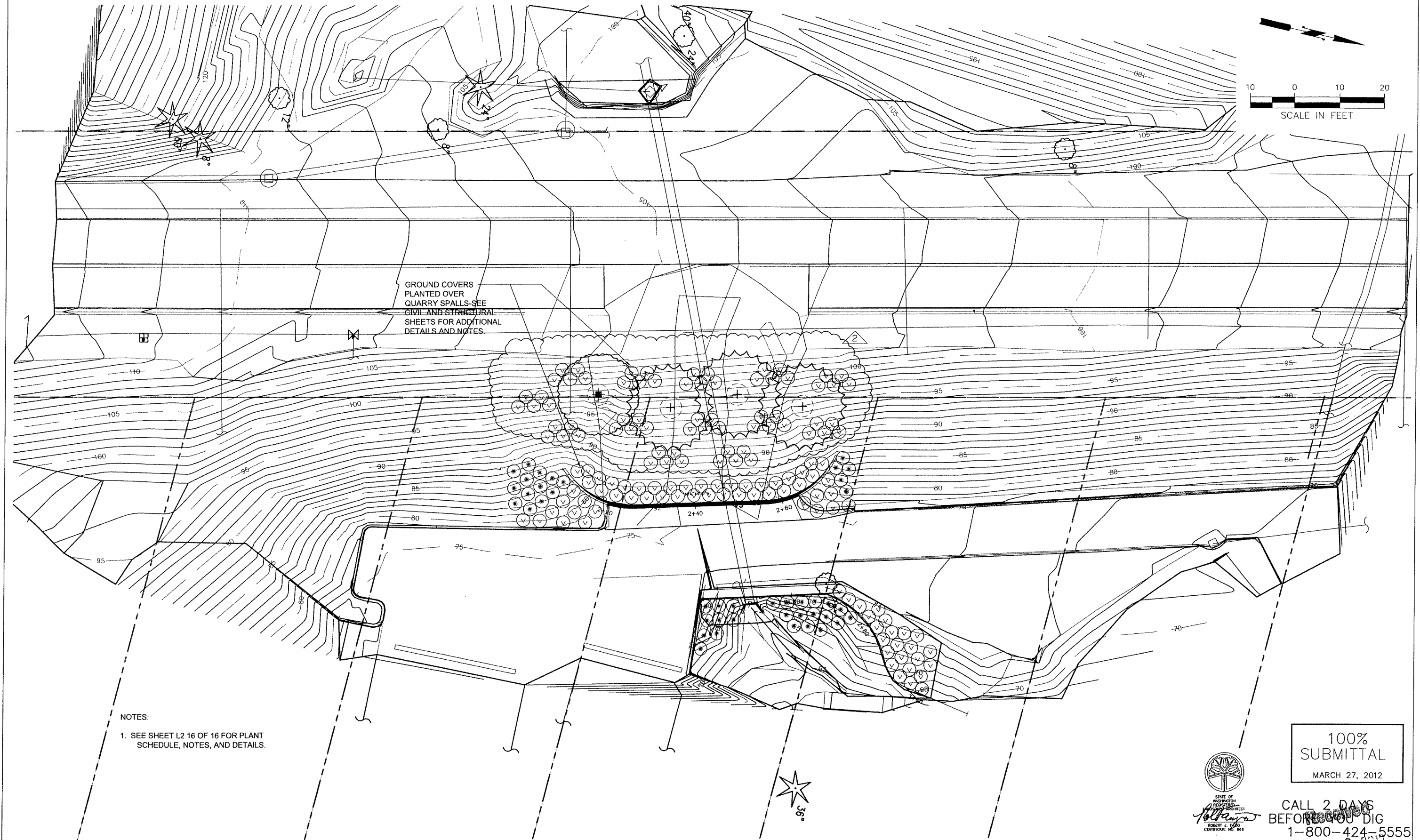
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| WALL TYPICAL SECTIONS | |
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| WL4 | SHT 14 OF 16 |

File Location: S:\Projects\2012\12-0000\12-0000.dwg
User: S:\Users\FAZIO\FAZIO
Layout: 12-0000
Plot Scale: 1"=20'



| NO. | DATE | BY | APPR. | REVISIONS |
|-----|---------|----|-------|--|
| 1 | 5/26/12 | de | rf | Released for Construction |
| 2 | 6/4/12 | de | rf | Revised Slope Cross Sections and Supplement Groundcovers |
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LANDSCAPE ARCHITECTS
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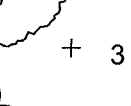


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PLANTING PLAN
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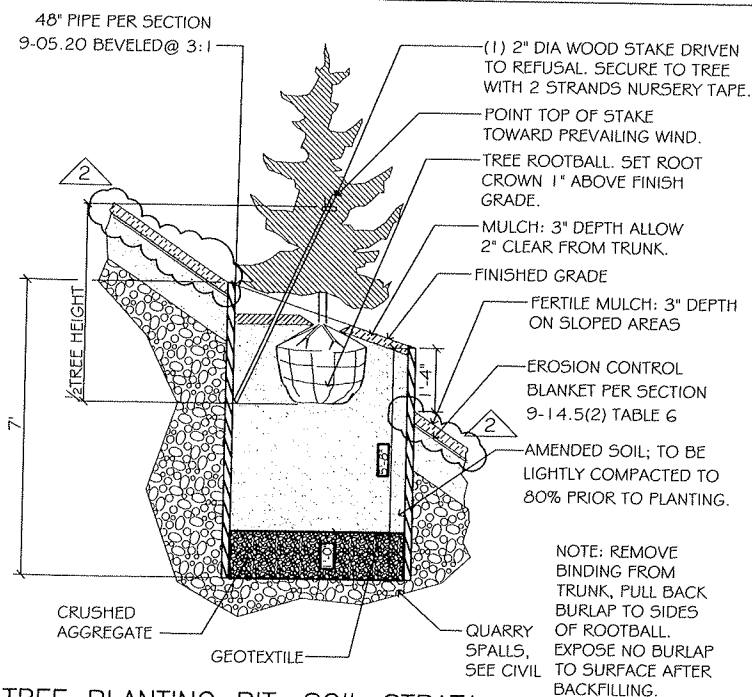
L1 SHT 15 OF 16

Planting Schedule with Amenities

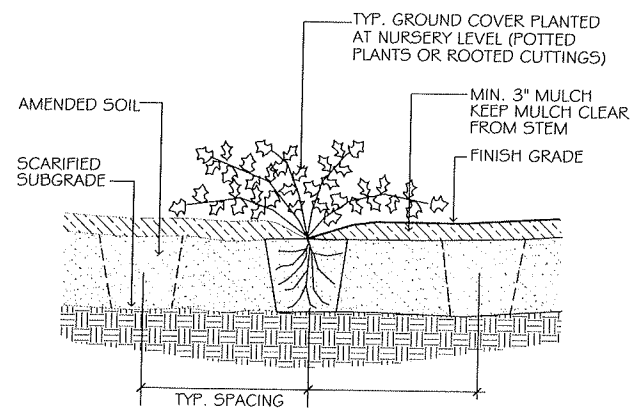
| Symbol | Qty. | Type | Size/Comments |
|---|------|--|----------------------|
|  | 1 | Large Street Tree | |
| | | Acer circinatum / Vine Maple | 5' min. ht. |
|  | 3 | Large Coniferous Tree | |
| | | Pinus contorta / Shore Pine | 2" cal., 8' min. ht. |
|  | 42 | Small Shrubs and Groundcovers (GC) | |
| | | Polystichum munitum / Sword Fern (GC) | 1 gal. @18" O.C. |
|  | 141 | Mahonia repens / Creeping Mahonia (GC) | 1 gal. @12" O.C. |

Planting Notes

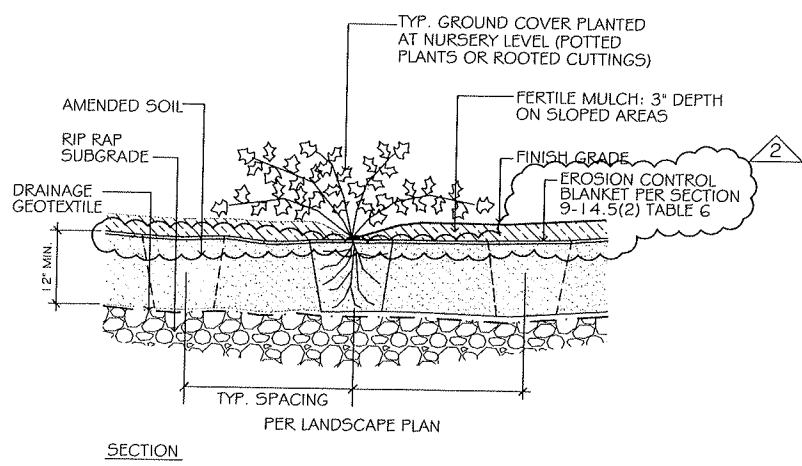
1. Layout of all plants to be approved by landscape architect prior to installation.
2. Restore all areas disturbed by construction with mulch unless otherwise noted on plan.
3. Remove all existing plant material in areas to receive new planting. Ground covers to be planted 18" from trunk of all new trees and 12" from the base of all new shrubs.
4. Erosion Control Blanket per Section 9-14.5(2) Table 6.



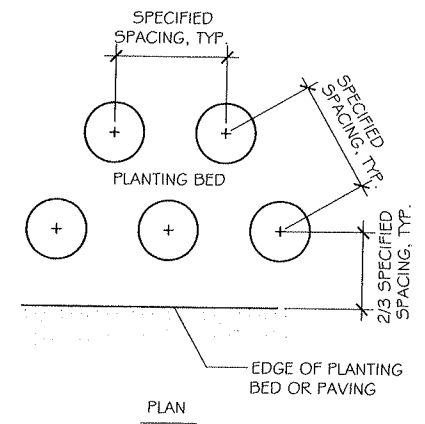
1 TREE PLANTING PIT: SOIL STRATA
NOT TO SCALE



2 GROUND COVER PLANTING OVER SUBSOIL
NOT TO SCALE



3 GROUND COVER PLANTING OVER RIP RAP
NOT TO SCALE




4 SHRUB & GROUND COVER SPACING
NOT TO SCALE

File Location: S:\Projects\2012\West Lake Sammamish Parkway\2012 Slide Repair\Layout
User: jfazio
Plotted: 10/2/2012

| NO. | DATE | BY | APPR. | REVISIONS |
|-----|---------|----|-------|--|
| 1 | 5/28/12 | de | rf | Released for Construction |
| 2 | 6/4/12 | de | rf | Revised Slope Cross Sections and Supplement Groundcovers |
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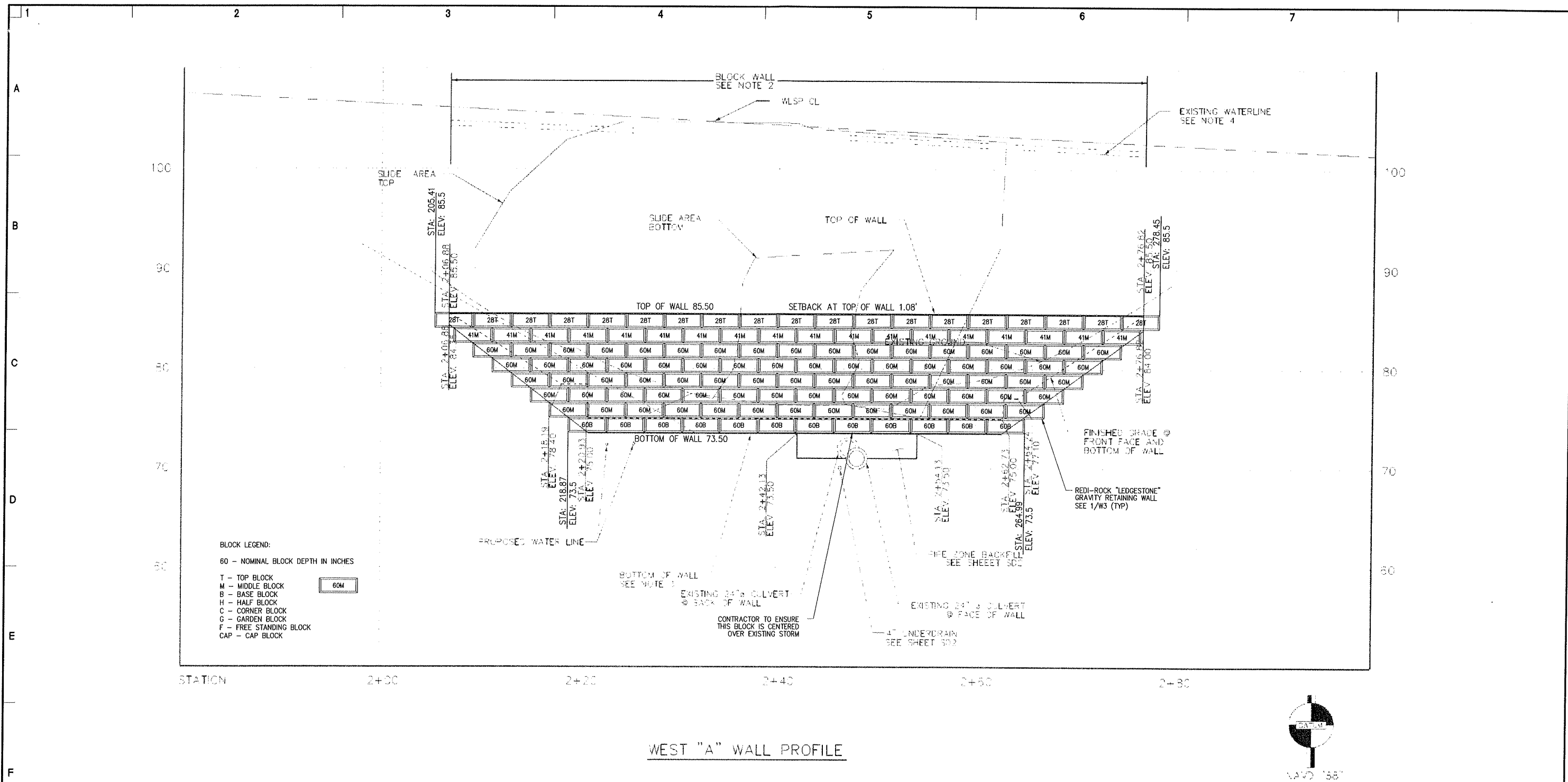
PLANT SCHEDULE AND DETAILS
Permit Processing

WEST LAKE SAMMAMISH PARKWAY

2012 SLIDE REPAIR

**WLSP
SHOP DRAWINGS**

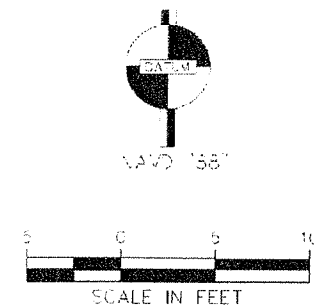
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WEST "A" WALL PROFILE

- NOTES:
1. MIN LENGTH OF WALL SHOWN. EXTEND WALL AS NEEDED
 2. SEE SHEET WL4 FOR BLOCK WALL SECTION
 3. MIN EMBEDMENT PER WALL MANUFACTURER'S REQUIREMENTS
 4. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION

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**DEVELOPMENT
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821 DOCK STREET, SUITE 207
TACOMA, WA 98402
PHONE: (253) 228-0513
WWW.DE-CIVIL.COM
CIVIL - GEOTECHNICAL

PROJECT TITLE:
**W. LAKE SAMMAMISH PARKWAY
REDI-ROCK RETAINING WALL
2012 SLIDE REPAIR
BELLEVUE, WA**

APPROVALS:
Job No.: 12-004
Proj. Manager: WGC
Drawn: WGC
Reviewed: WGC
Dwg. Chk.: WGC
Date: 3/1/12
Scale: 1" = 5'

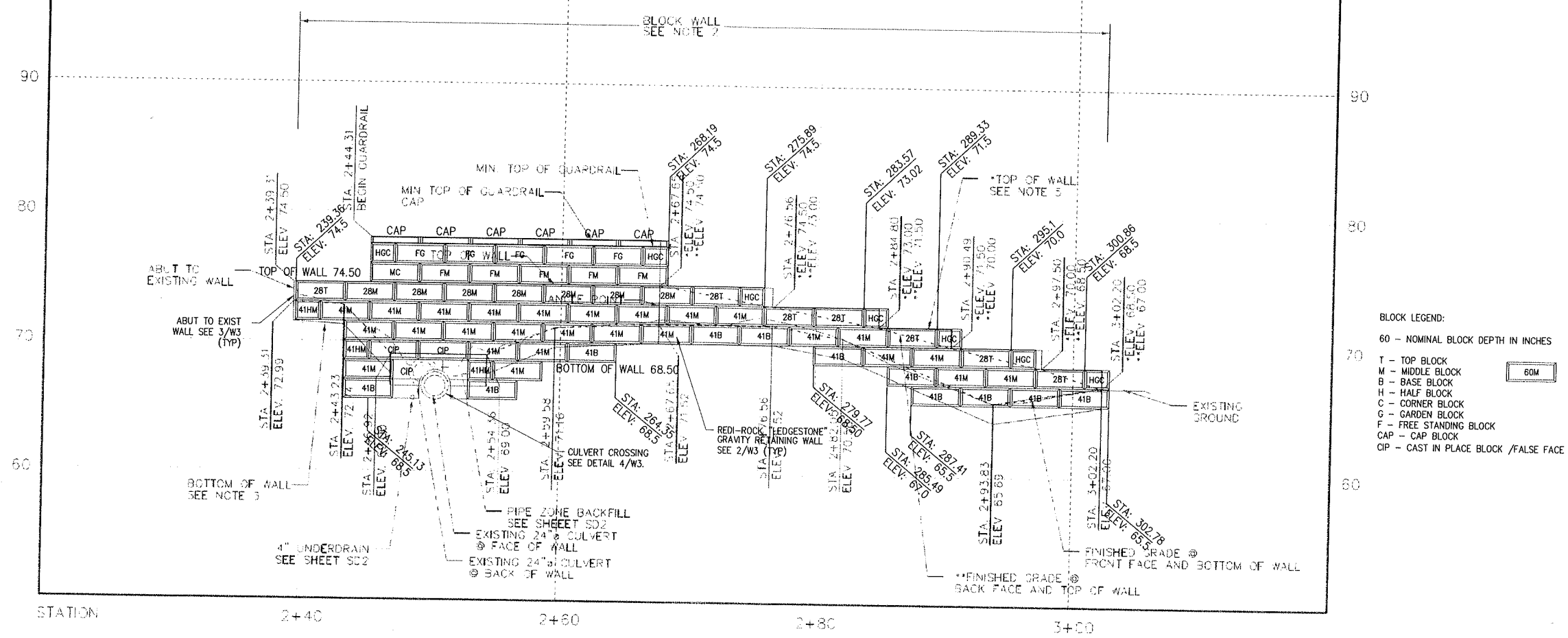
REVISIONS:

3/5/12 REVIEW COMMENTS

SIGNATURE:

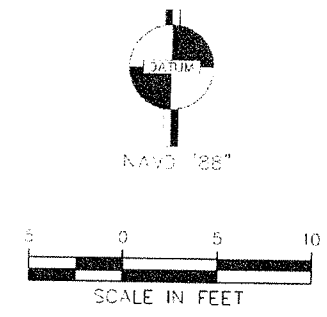
3/6/12

SHEET TITLE:
**Received
WEST WALL
ELEVATION**
OCT 09 2012
SHEET NO.:
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EAST "B" WALL PROFILE

- NOTES:
1. MIN LENGTH OF WALL SHOWN. EXTEND WALL AS NEEDED.
 2. SEE SHEET WL4 FOR BLOCK WALL TYPICAL SECTION.
 3. MIN EMBEDMENT PER WALL MANUFACTURER'S REQUIREMENTS.
 4. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
 5. *WALL MANUFACTURER MAY VARY WALL STEPS AS NEEDED FOR BLOCK STANDARD DIMENSIONS WHILE MAINTAINING WALL HEIGHT ABOVE FINISHED GRADE @ BACK FACE AND TOP OF WALL.
 6. ** ELEVATION SHOWN IS TO FINISHED GRADE AT BACK FACE OF WALL.



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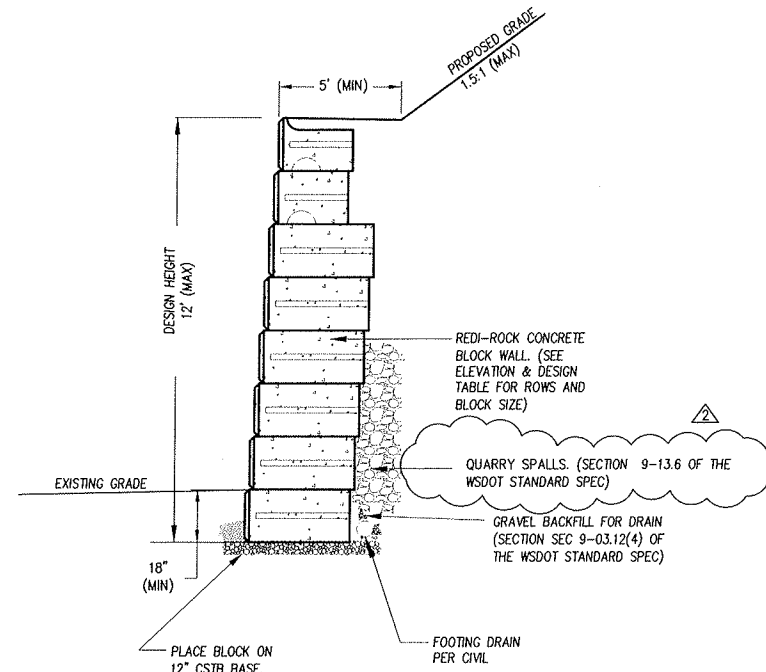
PROJECT TITLE:
**W. LAKE SAMMAMISH PARKWAY
REDI-ROCK RETAINING WALL
2012 SLIDE REPAIR
BELLEVUE, WA**

APPROVALS:
Job No.: 12-004
Proj. Manager: WGC
Drawn: WGC
Reviewed: WGC
Dwg. Chk.: WGC
Date: 3/1/12
Scale: 1" = 5'

REVISIONS:
3/6/12 REVIEW COMMENTS

SIGNATURE:
WALLACE GLEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
3/6/12

SHEET TITLE:
CIVIL
ELEVATION
SHEET NO.:
W-2
Permit Processing



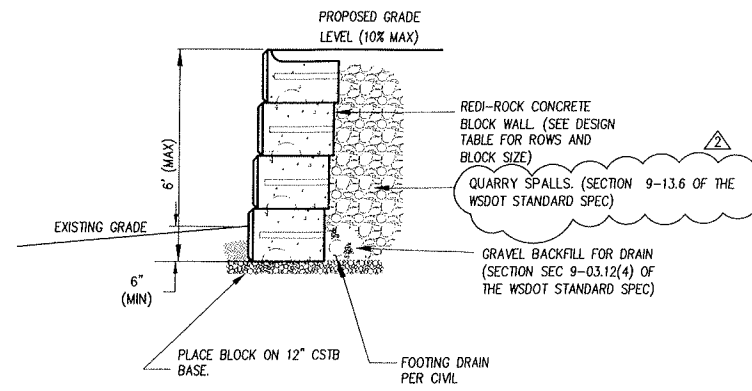
NOTES:

1. CONSTRUCT BLOCK WALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. SEE BLOCK SCHEDULE IN DESIGN CALCULATIONS FOR BLOCK SIZES AND NUMBER OF ROWS.
3. ENGINEER SHALL VERIFY SUBGRADE CONDITIONS FOR WALLS OVER 4 FEET. (MIN BEARING CAPACITY 4,000PSF)
4. EMBED LOWEST COURSE OF BLOCK A MINIMUM 18 INCHES OR AS NECESSARY TO BEAR ON DENSE NATIVE SOILS.
5. NO STRUCTURE SHALL BE LOCATED WITHIN A HORIZONTAL SETBACK EQUAL TO THE WALL HEIGHT FROM THE BACK OF THE UPPER BLOCK COURSE.
6. BLOCK BACKFILL SHALL CONSIST OF QUARRY SPALLS.

REDI-ROCK WEST WALL SECTION

SCALE : NTS

1



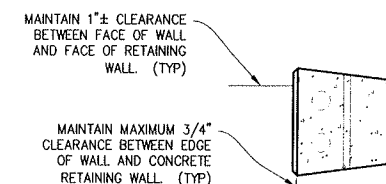
NOTES:

1. CONSTRUCT BLOCK WALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. ENGINEER SHALL VERIFY SUBGRADE CONDITIONS FOR WALLS OVER 4 FEET. (MINIMUM BEARING CAPACITY 4,000PSF)
3. EMBED LOWEST COURSE OF BLOCK A MINIMUM 6 INCHES OR AS NECESSARY TO BEAR ON DENSE NATIVE SOILS.
4. NO STRUCTURE SHALL BE LOCATED WITHIN A HORIZONTAL SETBACK EQUAL TO THE WALL HEIGHT FROM THE BACK OF THE UPPER BLOCK COURSE.
5. BLOCK BACKFILL SHALL CONSIST OF QUARRY SPALLS.

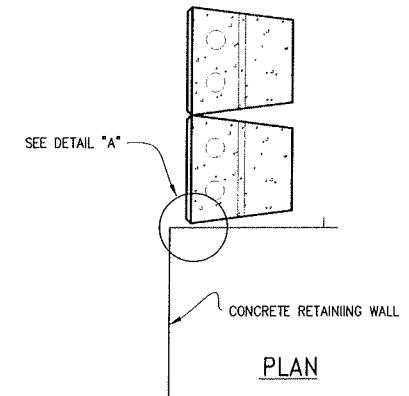
REDI-ROCK EAST WALL SECTION

SCALE : NTS

2



DETAIL "A"

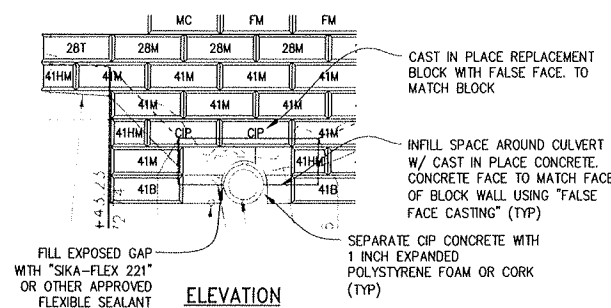


ELEVATION

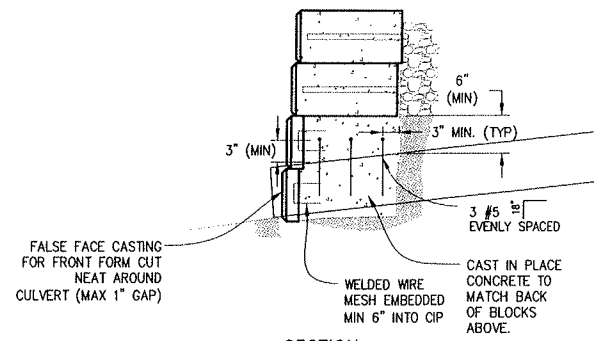
CONCRETE WALL & WALL DETAILS

SCALE : NTS

3



EAST WALL CULVERT CROSSING



SECTION

SCALE : NTS

4

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555

PREPARED BY:
**DEVELOPMENT
ENGINEERING, PLLC**
821 DOCK STREET, SUITE 207
TACOMA, WA 98402
PHONE: (253) 228-0513
WWW.DE-CIVIL.COM
CIVIL - GEOTECHNICAL

PROJECT TITLE:
**W. LAKE SAMMAMISH PARKWAY
REDI-ROCK RETAINING WALL
2012 SLIDE REPAIR
BELLEVUE, WA**

APPROVALS:
Job No.: 12-004
Proj. Manager: WGC
Drawn: WGC
Reviewed: WGC
Dwg. Chk: WGC
Date: 3/1/12
Scale: 1" = 5'

REVISIONS:
3/10/12 REVISED BACKFILL NOTE
3/5/12 ADDED CULVERT CROSSING DETAIL

SIGNATURE:
WALLACE GLEN
REGISTERED PROFESSIONAL ENGINEER
3/10/12

SHEET TITLE:
**Received
GENERAL NOTES
& DETAILS
OCT 09 2012
W-3
Permit Processing**